

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD		DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	VV	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	
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Facility: RMS-32 FDL Utilities

Abstract:

Contents:

GET\_LINE
UPCASE
SET\_LINE
SET\_TERM
SET\_PRIMARY
SET\_SECONDARY
START\_STR
END\_STR
SET\_DATE\_TIME
SET\_COMMENT
SYNTAX\_ERROR
ERROR\_CHK
NEGATE
SET\_BLANK
CLR\_BLANK
FDL\$\$READ\_ERROR
RMS\_ERROR
RMS\_OPEN\_ERROR

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M 8 16-Sep-1984 01:47:45 14-Sep-1984 12:31:17 FDLDRIVER FDL Parse Table Drivers F C VC FDLDRIVER V04-000 VAX-11 Bliss-32 V4.0-742 [FDL.SRCJFDLDRIVER.B32;1 Page 2 (1) 0058 1 | Environment: 0060 1 | 0061 1 | 0062 1 | 0063 1 | --58 59 60 61 63 VAX/VMS Operating System

FDLDRIVER V04-000	FDLDRIVER FDL Parse Table Drivers	i e	N 8 16-Sep-1984 01: 14-Sep-1984 12:	47:45 31:17	VAX-11 Bliss-32 V4.0-742 [FDL.SRC]FDLDRIVER.B32;1	Page 3 (2)
: 65 : 66 : 67 : 68	0064 1 ! 0065 1 ! Author: 0066 1 ! 0067 1 !	Keith B Thompson	Creation date:	January•	-1981	
69	0068 1! Modified by:					
71 72 73 74	0071 1 ! 0072 1 ! 0073 1 !	KFH0009 Ken Hen Fix to FDL\$\$GET_LINE to FDL spec string.  Fix calls to GET_VM and	allow null	23 Aug 1	983	
71 72 73 74 75 76 77 78 79 80 81 82 83 84 85	0074 1   V03-011   V03-011	KFH0008 Ken Hen Fixes to END STR and SE Addition of EXTRACT QUO Addition of TRIM_LEADIN	derson T_DATE_TIME TE routine 'G_routine	10 Aug 1	983	
81 82	0080 1 V03-010 0081 1 V03-010 0082 1 V03-009	KFH0007 Ken Hen Check status of LIB\$TPA	derson RSE call	29 Jul 1	983	
84 85 86	0083 1	KFH0006 Ken Hen Fixed call to \$BINTIM	derson	26 Apr 1	983	
87 : 88 : 89	0086 1 ! V03-008	KFH0005 Ken Hen fixed broken branches	derson	30 Dec 1	982	
90 91	0088 1 ! 0089 1 ! V03-007 0090 1 ! 0091 1 !	'KFH0004 Ken Hen Fixed signal of FDL\$_UN	derson SECKW	21 Dec 1	982	
92 93 94 95 96 97 98 99	0092 1	KFH0003 Ken Hen Added support for defau main parses Added support for more secondaries per primary Added move to .FDL\$GL_S .FDL\$GL_STMNTNUM	lt and than 32	15-Nov-1	982	
101 102 103 104		KFH0002 Ken Hen Removed numtype Added support for ACL p Added support for FDL S	rimary	6-0ct-19	<b>98</b> 2	
106 107 108	0105 1 ! V03-004 0106 1 !	KFH0001 Ken f. Changed terminator char	Henderson acter from ''/'' to	2 <b>8-</b> Jul-1	982	
109 110 111	0107 1 ! 0108 1 ! v03-003 0109 1 ! 0110 1 !	KB10067 Keith B Add support for multipl	. Thompson e keywords per l	23-Jun-1 ine	982	
112 113 114		KBT0029 Keith T Add upcase/lowercase pr	hompson ocessing and date	30-Mar-1 e/time ro		
115 116 117 118		KBT0019 Keith T fix error message proce		22-Mar-1	982	

```
B 9
FDLDRIVER
                                                                                                                                                 16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
                                    FDLDRIVER
                                                                                                                                                                                                        VAX-11 Bliss-32 V4.0-742 LFDL.SRCJFDLDRIVER.B32:1
                                                                                                                                                                                                                                                                                          Page
                                                                                                                                                                                                                                                                                                      (3)
V04-000
                                    FDL Parse Table Drivers
                                     0118
      1212345678901233456789133456789
                                    0119
0120
0121
0122
0123
0124
0125
0126
0311
                                                      PSECT
                                                                        OWN = FDL$OWN
GLOBAL = FDL$GLOBAL
PLIT = FDL$PLIT
CODE = FDL$CODE
                                                                                                                               (PIC),
(PIC),
(SHARÉ,PIC),
(SHARE,PIC);
                                                     LIBRARY 'SYS$LIBRARY:STARLET';
REQUIRE 'SRC$.FDLUTIL';
REQUIRE 'LIB$:FDLPARDEF';
                                    0850
                                                     EXTERNAL ROUTINE FDL$$GET_VM, FDL$$FREE_VM, LIB$TPARSE,
                                    0851
0852
0853
                                    0854
0855
                                                                         STR$TRIM
                                    0856
0857
                                                                         SYSSBINTIM:
                                    0858
                                                      DEFINE_ERROR_CODES:
                                    0859
                                                   FORWARD ROUTINE
EXTRACT QUOTE,
TRIM LEADING,
UPCASE
FDL$$SET_PRIMARY,
FDL$$SET_SECONDARY,
FDL$$START_STR,
FDL$$SEND_STR,
FDL$$SET_COMMENT,
FDL$$SYNTAX_ERROR,
FDL$$READ_ERROR
      140
                                    0860
      141
                                    0861
      142
143
                                    0862
0863
                                                                                                                               : NOVALUE,
                                    0864
0865
      144
      145
                                    0866
0867
      146
147
                                   0868
0869
0870
0871
0872
0873
0874
0875
0876
0877
      148
      149
      150
      151
152
153
154
                                                                        FDL$$READ_ERROR
                                                                                                                               : NOVALUE;
                                                      EXTERNAL
      155
156
157
158
159
                                                                        Parse control
                                                                       FDL$AB_LINE
FDL$AB_UPCASED
FDL$AB_ITEM
FDL$AB_FDL_STPING
FDL$AB_PRE_PARSE_BLOCK
FDL$AB_PRE_PARSE_STATE,
FDL$AB_PRE_PARSE_KEY,
FDL$GL_STNOMPTR,
FDL$GL_MAXLINE,
FDL$GL_PRIMARY,
FDL$GL_PRIMARY,
FDL$GL_PRINUM,
FDL$AB_PRICTRL
FDL$GL_SECONDARY,
FDL$AB_SECCTRL
FDL$AB_SECCTRL
FDL$AB_SECCTRL
FDL$AB_SECCTRL
FDL$AB_SECCTRL
FDL$AB_SECCTRL
FDL$AB_SECCTRL
FDL$GL_NUMBER,
FDL$GL_SWITCH,
                                                                                                                               : DESC_BLK, : DESC_BLK,
                                                                                                                              : DESC_BLK,
: DESC_BLK,
                                    0879
      160
                                    0880
      161
                                    0881
                                                                                                                              : BLOCK [ .BYTE ].
      162
                                    0882
0883
      164
                                    0884
      165
                                    0885
                                    0886
      166
                                                                                                                               : BLOCK [ ,BYTE ],
      167
                                    0887
      168
                                    0888
      169
170
                                    0889
                                                                                                                               : BLOCK [ ,BYTE ],
                                    0890
      171
                                    0891
      172
173
                                    0892
                                                                                                                               : BITVECTOR [ FDLSK_SCTRL_VEC ],
                                                                                                                               : VECTOR [ FDL$K_SCTRL_LONG, LONG ],
      174
175
                                    0894
                                    0895
      176
                                    0896
                                                                         FDLSGL_SWITCH,
```

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FOLDRIVER V04-000	VAX-11 FDL Util FDL Parse Table	ities Drivers	; 9 16-Sep-1 14-Sep-1	984 01:47:45 984 12:31:17	VAX-11 Bliss-32 V4.0-742 EFDL.SRCJFDLDRIVER.B32;1
177 178 179 180 181 182 183 184 185 186 187 188 189 190	0897 1 0898 1 0899 1 0900 1 0901 1 0902 1 0903 1 0904 1 LITERAL 0905 1 0906 1 0907 1 0908 1 0909 1 0910 1 OWN	FDL\$GL_PROTECTION, FDL\$AL_DATE_TIME FDL\$AB_STRING FDL\$AB_COMMENT FDL\$GL_STMNTNUM, FDL\$AB_FDL_RAB  SMALL_A = 97, SMALL_Z = 122 UPCASE_MASK = 32, COMMENT_MARK = 33;  STRING_DESC : DES	: VECTOR [ ,LONG : DESC_BLK, : DESC_BLK, : \$RAB_DECL; : ASCII ! ASCII ! Mask to ! ASCII	character 'a	 upercase ASCII

Page 5 (3)

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F D
VO
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Page

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16-Sép-1984 01:47:45
14-Sép-1984 12:31:17
                                                                                                          VAX-11 Bliss-32 V4.0-742 [FDL.SRC]FDLDRIVER.B32;1
FDLDRIVER
                   VAX-11 FDL Utilities
V04-000
                   GET_LINE
                   0912 1
0913 1
0914 1
                          1 XSBITL 'GET_LINE'
                            GLOBAL ROUTINE FDL$$GET_LINE =
   194
   195
                   0915 1
   196
                   0916 1
0917 1
   197
                               Functional Description:
   198
   199
                   0918 1
                                      Set up a new item for the parse tables. If there are no
   200
201
202
203
                   0919 1
                                      more items on a line it then reads from the input file (or uses
                   0920 1
                                      the FDL STRING)
                   0921 1
0922 1
0923 1
0924 1
0925 1
                                      It then upcases it; inits some values and returns
   204
                               Calling Sequence:
   205
   506
                                      Called from the parse tables
                   0926 1
0927 1
0928 1
   207
   208
                               Input Parameters:
   209
                                      none
                   0929 1
0930 1
   211
                               Implicit Inputs:
                   0931
                                      none
                   0932
0933
   213
   214
                               Output Parameters:
                   0934
0935
   215
                                      none
   216
                   0936
0937
   217
                               Implicit Outputs:
   none
                   0938
                   0939
                               Routine Value:
                   0940
                                      none
                   0941
                   0942
0943
                               Side Effects:
                                      none
                   0944
                   0945
                          1 !--
                   0946
0947
                                  BEGIN
                   0948
                   0949
                                  TPARSE_ARGS;
                   0950
                   0951
                                    Main processing loop
                   0952
0953
                                  DO
                   0954
                                      BEGIN
                   0955
                   0956
0957
                                       ! If there are no more items in the line get a new line
                   0958
0959
                                       if .fdl$ab_item [ dsc$w_length ] Eql 0
   THEN
                   0960
                                           BEGIN
                   0961
                   0962
                                           IF .fDL$AB_CTRL [ FDL$V_STRING_SPEC ]
                                           THEN
                   0964
                                                BEGIN
                   0965
                                                  Only go thru once for the string.
Don't go thru at all if the string is null.
                   0966
   248
249
                   0967
                   0968
```

D 9

```
FDLDRIVER
                  VAX-11 FDL Utilities
                                                                           16-Sep-1984 01:47:45
                                                                                                       VAX-11 Bliss-32 V4.0-742
                                                                                                                                                 Page
V04-000
                                                                                                      [FDL.SRC]FDLDRIVER.832;1
                  GET_LINE
                                                                           14-Sep-1984 12:31:17
                  0969
   0970
                                               (.FDL$AB_CTRL [ FDL$V_USED_STRING ])
                  0971
                  0972
                                               (.FDL$AB_FDL_STRING [ DSC$W_LENGTH ] EQLU 0)
                                              ) THEN
                  0974
                                                   RETURN 0;
                  0975
                                              CH$MOVE ( .FDL$AB_FDL_STRING [ DSC$W_LENGTH ], .FDL$AB_FDL_STRING [ DSC$A_POINTER ], .FDL$AB_LINE [ DSC$A_POINTER ] );
                  0976
                  0977
                  0978
                  0979
                                              FDL$AB_LINE [ DSC$W_LENGTH ] = .FDL$AB_FDL_STRING [ DSC$W_LENGTH ];
FDL$AB_CTRL [ FDL$V_USED_STRING ] = _SET;
                  0980
                  0981
                  0982
0983
                  0984
                                          ELSE
                  0985
                                              BEGIN
                  0986
                  0987
                                                Loop until we get a non-zero 'ine
                  0988
                  0989
                                              DO
                  0990
                                                   BEGIN
                  0991
                  0992
                                                   ! Get the new line from the FDL file.
                  0993
                  0994
                                                   RET_ON_ERROR( $GET ( RAB=FDL$AB_FDL_RAB,ERR=FDL$$READ_ERROR ) );
   276
277
278
279
                  0995
                  0996
                                                   END
                  0997
                  0998
                                              UNTIL ( FDL$AB_LINE [ DSC$W_LENGTH ] =
   280
                  0999
                                                                           .FD[$AB_FDL_RAB [ RAB$W_RSZ ] ) NEQ 0;
   281
                  1000
   282
283
                  1001
                                              END:
                  1002
   284
                                           Up case the whole line and move it into the upcase buffer
   285
                  1004
   286
                  1005
                                         UPCASE():
   287
                  1006
   288
                  1007
                                          ! Point the tables to the upcased line
   289
                  1008
   290
                  1009
                                         FDL$AB_ITEM [ DSC$A_POINTER ] = .FDL$AB_UPCASED [ DSC$A_POINTER ]
   291
292
293
294
295
                  1010
                  1011
                                         END:
                  1012
                                       Point to the next item
                  1014
   296
                  1015
                                     fdl$AB_ITEM [ DSC$A_POINTER ] = .fdl$AB_ITEM [ DSC$A_POINTER ] +
   297
                  1016
                                                                                    .FDL$AB_ITEM<sup>-</sup>[ DSC$W_LENGTH ];
   298
                  1017
   299
                  1018
                                     BEGIN
   300
                  1019
   301
                  1020
                                       Get the string
   302
303
                  1021
                  1022
                                     FDL$AB_PRE_PARSE_BLOCK [ TPA$L_STRINGCNT ] =
   304
                                                                      .FDLSAB_UPCASED [ DSCSW_LENGTH ]
                  1024
   305
                  1025
                                                                           .FDL$AB_ITEM [ DSC$A_POINTER ]
```

```
FDLDRIVER
                                                                         16-Sép-1984 01:47:45
                  VAX-11 FDL Utilities
                                                                                                     VAX-11 Bliss-32 V4.0-742
                                                                                                                                              Page
V04-000
                  GET_LINE
                                                                         14-Sep-1984 12:31:17
                                                                                                    [FDL.SRC]FDLDRIVER.B32:1
                  1026
                                                                         - .FDL$AB_UPCASED [ DSC$A_POINTER ]
                                    fDL$AB_PRE_PARSE_BLOCK [ TPA$L_STRINGPTR ] = .fDL$AB_ITEM [ DSC$A_POINTER ];
   309
                  1028
                  1029
   310
   311
                                      find where to chop it off - the Tparse will set these flags if it finds " or '
                  1031
                  1032
                                    FDL$AB_CTRL [ FDL$V_QUOTE_PRES ] = _CLEAR;
FDL$AB_CTRL [ FDL$V_APOST_PRES ] = _CLEAR;
   315
                  1034
   316
317
                  1035
                P 1036
                                     RET_ON_ERROR ( LIBSTPARSE (
   318
                  1037
                                    FDL$AB_PRE_PARSE_BLOCK, FDL$AB_PRE_PARSE_STATE, FDL$AB_PRE_PARSE_KEY ));
   319
                  1038
                  1039
   320
321
322
323
324
325
326
327
328
                                     ! Now set up the main tparse block to find our 'line'
                  1040
                                    1041
                  1042
                  1044
                  1045
                  1046
                                    FDL$AB_ITEM [ DSC$W_LENGTH ] = .TPARSE_BLOCK [ TPA$L_STRINGCNT ];
                  1047
   329
                  1048
                                              ! of local
                                    END
                  1049
   330
   331
                  1050
                                    END
                                              ! of main loop
   332
                  1051
                  1052
   333
                                INTIL .FDL$AB_ITEM [ DSC$W_LENGTH ] NEQ 0;
   334
   335
                  1054
                                FDL$GL_STMNTNUM = .FDL$GL_STMNTNUM + 1;
   336
                  1055
   337
                  1056
                                  Update the user's cell that contains the statement number.
   338
                  1057
   339
                  1058
                                IF .FDL$AB_CTRL [ FDL$V_STVALID ]
   340
                  1059
                                THEN
   341
                  1060
                                     .FDL$GL_STNUMPTR = .FDL$GL_STMNTNUM;
   342
343
                  1061
                  1062
                                ! Since there is a new secondary for each item clear some flags
   344
   345
                  1064
                                FDL$GL_SECONDARY
                                                         _CLEAR;
                               FDL$GL_SECNUM = CLEAR;
FDL$GL_SWITCH = CLEAR;
FDL$GL_PROTECTION = CLEAR;
FDL$AB_STRING [ DSC$W_[ENGTH ] = 0;
                  1065
   346
   347
                  1066
   348
                  1067
   349
                  1068
   350
351
                  1069
                               FDL$AB_CTRL [ FDL$V WARNING ] = _CLEAR;
FDL$AB_CTRL [ FDL$V_COMMENT ] = _CLEAR;
                  1070
   352
353
                  1071
                                FDLSAB_CTRL [ FDLSV_LINECMT ] = _CLEAR;
                  1072
   354
                               RETURN SS$_NORMAL
   355
                  1074
                  1075
   356
                                END:
```

.TITLE FDLDRIVER VAX-11 FDL Utilities .IDENT \V04-000\
.PSECT \_FDL\$OWN,NOEXE, PIC,2

FI

```
00000 STRING_DESC:
.BLKB 8
```

.EXTRN	FDL\$\$GET VM, FDL\$\$FREE_VM LIB\$TPAR\$E, STR\$TRIM  SYS\$BINTIM, FDL\$ FACILITY FDL\$ FAO MAX, FDL\$ ABKW FDL\$ ABPRIKW, FDL\$ CREATE FDL\$ CREATED, FDL\$ CREATEDSTM FDL\$ FDLERROR, FDL\$ ILL ARG FDL\$ INSVIRMEM, FDL\$ INVBLK FDL\$ INVDATIM, FDL\$ MULPRI FDL\$ MULSEC, FDL\$ NOQUAL FDL\$ NULPRI, FDL\$ OPENFOL FDL\$ OUTORDER, FDL\$ OPENFOL FDL\$ WRITEERR, FDL\$ READERR FDL\$ SYNTAX, FDL\$ VALPRI FDL\$ SYNTAX, FDL\$ UNPRIKW FDL\$ UNSECKW, FDL\$ UNPRIKW FDL\$ AB LINE, FDL\$ AB UPCASED FDL\$ AB LINE, FDL\$ AB FDL STRING FDL\$ AB PRE PARSE BLOCK FDL\$ AB PRE PARSE STATE
.EXTRN .EXTRN .EXTRN .EXTRN .EXTRN .EXTRN .EXTRN .EXTRN .EXTRN .EXTRN	FDL\$AB_PRE_PARSE_KEY FDL\$GL_STNOMPTR  FDL\$GL_MAXLINE, FDL\$AB_CTRL FDL\$GL_PRIMARY, FDL\$GL_PRINUM FDL\$AB_PRICTRL, FDL\$GL_SECONDARY FDL\$AB_SECCTRL FDL\$AB_SECCTRL FDL\$GL_QUALIFIER FDL\$GL_NUMBER, FDL\$GL_SWITCH FDL\$GL_PROTECTION FDL\$AL_DATE_TIME FDL\$AB_STRING, FDL\$AB_COMMENT FDL\$GL_STMNTNUM FDL\$AB_FDL_RAB, SYS\$GET
	_FDL\$CODE,NOWRT, SHR, P1C,2
.ENTRY	fDL\$\$GET_LINE, Save R2,R3,R4,R5,

			OFF	C 00000	.ENTRY	FDL\$\$GET_LINE, Save R2,R3,R4,R5,R6,R7,R8,-	: 0913
		5B 00000000 5A 00000000 59 00000000 58 0000000	)G 00 9	E 00002 E 00009 E 00010 E 00017	MOVAB MOVAB MOVAB MOVAB	R9,R10,RT1 FDL\$AB_FDL_STRING, R11 FDL\$AB_PRE_PARSE_BLOCK+12, R10 FDL\$AB_CTRE, R9 FDL\$AB_ITEM, R8	
		27	68 3	C 0001E	MOVZWL	FDL\$AB_ITEM, R7	0958
2B 03	01 01	A9 A9	62 1 04 E 05 E 00EE 3	2 00021 1 00023 1\$: 1 00028 1 00020 2\$:	BBC	6\$ #4, FDL\$AB_CTRL+1, 4\$ #5, FDL\$AB_CTRL+1, 3\$ 10\$	0962 0970
			6B B	5 00030 38:	: TSTW	FDLSAB_FDL_STRING	0972
		56 51 50 0000000	AB D	3 00032 0 00034 0 00037 0 0003B	BEQL MOVZWL MOVL MOVL	FDL\$AB_FDL_STRING, R6 FDL\$AB_FDL_STRING+4, R1 FDL\$AB_LINE+4, R0	0976 0977 0978

FDLDRIVER V04-000	VAX-11 FD GET_LINE	)L Ut	ilities					) 10 10	4 9 5-Sep-19 4-Sep-19	984 01:47 984 12:31	7:45	10 (4)
		0 0 0 50 0 <b>AA</b>	000000006 000000006 000000000 000000006 01	60A9 090 08081020A9 080CA	00000000000000000000000000000000000000	5522000200D008081021F00A30800	8A 9f 9f 9f	00046 00045 000055 000055 0000056 000000 00000 00000 00000 00000 0000 0000	5 <b>\$</b> : 6 <b>\$</b> :	MOVUS BISB2 BRBHAB PUSHAB PUSHAB PUSHAB CAULWISHAB MOVIZ MOVIZ MOVIZ MOVIZ MOVIZ MOVISHAB PUSHAB PUSHAB PUSHAB PUSHAB PUSHAB PUSHAB PUSHAB PUSHAB PUSHAB PUSHAB SUBIS	#32, FDL\$AB_CTRL+1  5\$  FDL\$\$READ_ERROR  FDL\$AB_FDL_RAB  #2, SYS\$GET  STATUS, 7\$  FDL\$AB_FDL_RAB+34, FDL\$AB_LINE  4\$  #0, UPCASE  FDL\$AB_UPCASED+4, FDL\$AB_ITEM+4  FDL\$AB_ITEM, RO  RO, FDL\$AB_ITEM, RO  RO, FDL\$AB_ITEM+4, R1  R1, FDL\$AB_UPCASED+4, RO  FDL\$AB_UPCASED, R2  R2, R0, FDL\$AB_UPCASED+4, R0  FDL\$AB_UPCASED, R2  R1, FDL\$AB_UPCASED, R2  R2, R0, FDL\$AB_PRE_PARSE_BLOCK+8  R1, FDL\$AB_PRE_PARSE_BLOCK+12  #192, FDL\$AB_PRE_PARSE_BLOCK+12  #192, FDL\$AB_PRE_PARSE_BLOCK+12  #192, FDL\$AB_PRE_PARSE_BLOCK+12  #192, FDL\$AB_PRE_PARSE_BLOCK  #3, LIB\$TPARSE  STATUS, 11\$  FDL\$AB_PRE_PARSE_BLOCK  #3, LIB\$TPARSE  STATUS, 11\$  FDL\$AB_ITEM+4, RO  R0, 12TPARSE_BLOCK)	980 981 962 994 999 009 016 024 024 0234 0337
		OE	02	68 57 A9 50 60	000000006	AC8635 F4000000000000000000000000000000000000	3130E00044444A0044	000DB 000DE	<b>9\$</b> :	MOVUMENT OF THE PROPERTY OF TH	### STEP ###	046 052 058 060 065 066 067 068 071

; Routine Size: 289 bytes, Routine Base: \_FDL\$CODE + 0000

```
FDLDRIVER
                  VAX-11 FDL Utilities
                                                                          16-Sep-1984 01:47:45
                                                                                                      VAX-11 Bliss-32 V4.0-742
V04-000
                  UPCASE
                                                                          14-Sep-1984 12:31:17
                                                                                                      [FDL.SRC]FDLDRIVER.B32:1
                  1076
1077
   358
359
                           XSBTTL 'UPCASE'
                           ROUTINE UPCASE : NOVALUE =
   360
                  1078
   361
                  1079
   362
363
364
366
368
370
371
                  1080
                              Functional Description:
                  1081
                  1082
1083
1084
1085
                                     Upcases the input line while moving it into the upcase buffer
                              Calling Sequence:
                  1086
                                     UPCASE (
                  1088
                              Input Parameters:
                                     none
   372
373
374
375
                  1090
                  1091
                              Implicit Inputs:
                  1092
1093
                                     FDL$AB_LINE
                                                       - Descriptor of the input line
   376
                  1094
   377
                  1095
                              Output Parameters:
   378
                  1096
1097
                                     none
   379
                  1098
1099
   380
                              Implicit Outputs:
   381
   382
383
                  1100
                                     FDL$AB_UPCASED - Descriptor of the upcased input line
                  1101
1102
1103
   384
                              Routine Value:
   385
                                     none
   386
387
                  1104
                  1105
                         1
                              Side Effects:
   388
                  1106
                                     none
   389
   390
                  1108
                  1109
   391
   392
393
                  1110
                                BEGIN
                  1111
   394
                  1112
                                LOCAL
   395
                                              : REF VECTOR [ ,BYTE ],
: REF VECTOR [ ,BYTE ];
                                     CHAR
   396
                  1114
                                     UPCR
   397
                  1115
   398
                  1116
                                ! Point to the string of characters and the upcase buffer
   399
   400
                  1118
                                CHAR = .FDL\AB_LINE [ DSC\A_POINTER ];
   401
                  1119
                                UPCR = .FDL$AB_UPCASED [ DSC$A_POINTER ];
                  1120
1121
1122
1123
1124
1125
1126
   402
                                 ! Loop for all the characters in a line
   404
                                INCR I FROM 0 TO ( .FDL$AB_LINE [ DSC$W_LENGTH ] - 1 ) BY 1
   406
   408
                                       If the char, is a lower case letter upcase it
   409
                                       else just copy it over
                  1128
1129
1130
   410
   411
                                     IF ( .CHAR [ .I ] GEQU SMALL_A ) AND ( .CHAR [ .I ] LEQU SMALL_Z )
   412
                  1131
                                         UPCR [ .I ] = .CHAR [ .I ] AND ( NOT UPCASE_MASK )
   414
                  1132
                                     ELSE
```

Page 11 (5)

```
Page 12 (5)

1077
1118
1119
1123
1131
1129
1137
```

```
Save R2,R3
FDL$AB_LINE+4, CHAR
FDL$AB_UPCASED+4, UPCR
                                     000C 00000 UPCASE: .WORD
                  51 0000000G
                                  00 00 00002
                                                           MOVL
                  50 000000006
53 000000006
52
                                  00
                                       DO 00009
                                                           MOVL
                                  ŎŎ
                                       30 00010
                                                           MOVZWL
                                                                    FDL$AB_LINE, R3
                                  ŎĬ
                                       CE 00017
                                                           MNEGL
                                                                    #1, I
                                                                    35
                                       11 0001A
                                                           BRB
                                   1B
                                       91 0001c 15:
            61
                  8F
                                6241
                                                           CMPB
                                                                    (I)[CHAR], #97
                                  OF
                                       1F 00021
                                                           BLSSU
                  8F
                                6241
                                       91 00023
            7A
                                                                    (I)[CHAR], #122
                                                           CMPB
                                  08
                                       1A 00028
                                                           BGTRU
                                  20
05
                                                                    #32, (I)[CHAR], (I)[UPCR]
6240
                6241
                                       8B 0002A
                                                           BICB3
                                       11 00030
                                                           BRB
                                      90 00032 2$:
F2 00037 3$:
                6240
                                6241
                                                                    (I)[CHAR], (I)[UPCR]
                                                           MOVB
                                                           AOBLSS
     00000000 00
                                                                    R3, FDLSAB_UPCASED
                                       B0 0003B
                                                           MOVW
                                       04 00042
                                                           RET
                                                                                                                         1141
```

16-Sep-1984 01:47:45 14-Sep-1984 12:31:17

VAX-11 Bliss-32 V4.0-742

[FDL.SRC]FDLDRIVER.B32;1

FDLDRIVER

415

416

418

V04-000

VAX-11 FDL Utilities

RETURN

END:

UPCR [ .I ] = .CHAR [ .I ]:

FDL\$AB\_UPCASED [ DSC\$W\_LENGTH ] = .FDL\$AB\_LINE [ DSC\$W\_LENGTH ];

! Set the length of the upcased line

Routine Base: \_FDL\$CODE + 0121

**UPCASE** 

1140

; Routine Size: 67 bytes,

```
K 9
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
                      VAX-11 FDL Utilities
                                                                                                                         VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                           Page 13
V04-000
                      SET_LINE
                                                                                                                         [FDL.SRC]FDLDRIVER.B32;1
                                                                                                                                                                                  (6)
                              1 %SBTTL 'SET_LINE'
1 GLOBAL ROUTINE FDL$$SET_LINE =
                      1142
   1144
                      1146
                                    Functional Description:
                      1148
                                    Calling Sequence:
                      1149
                      1150
                                    Input Parameters:
                     1151
1152
1153
1154
1155
1156
                                            none
                                    Implicit Inputs:
                                            none
                                    Output Parameters:
                                            none
                      1158
   4444456789012345567
4444456789012345567
                      1159
                                    Implicit Outputs:
                      1160
                                            none
                      1161
                      1162
                                    Routine Value:
                                            none
                      1164
                      1165
                                    Side Effects:
                      1166
                                            none
                      1167
                      1168
                     1169
1170
1171
1172
1173
1174
1175
1176
1177
                                      BEGIN
                                      TPARSE_ARGS;
                                      FDL$AB_ITEM [ DSC$A_POINTER ] = .TPARSE_BLOCK [ TPA$L_TOKENPTR ];
   458
   459
                                      RETURN SS$_NORMAL
   460
   461
                                      END:
                                                                           0000 00000
00 00002
00 0000A
                                                                                                                FDL$$SET_LINE, Save nothing 20(TPARSE_BLOCK), FDL$AB_ITEM+4 #1, R0
                                                                                                                                                                                1143
1174
1176
                                                                                                      .ENTRY
                                       0000000G
                                                                         AC
01
                                                                                                                                                                              ; 1174
; 1176
; 1178
                                                                                                      MOVL
                                                                                                      MOVL
                                                                               04 0000D
                                                                                                      RET
```

; Routine Size: 14 bytes, Routine Base: \_FDL\$CODE + 0164

l

```
16-Sep-1984 01:47:45
FDLDRIVER
                 VAX-11 FDL Utilities
                                                                                              VAX-11 Bliss-32 V4.0-742
                                                                                                                                     Page 14 (7)
V04-000
                 SET_TERM
                                                                    14-Sep-1984 12:31:17
                                                                                              [FDL.SRC]FDLDRIVER.B32;1
                       1 %SBTTL 'SET_TERM'
1 GLOBAL ROUTINE FDL$$SET_TERM =
  1180
                 1181
                 1182
                            Functional Description:
                 1184
                 1185
                            Calling Sequence:
                 1186
                 1187
                            Input Parameters:
                 1188
                                  none
                 1189
                 1190
                            Implicit Inputs:
                                  none
                 1192
                            Output Parameters:
                 1194
                                  none
                 1195
                 1196
                            Implicit Outputs:
                 1197
                                  none
                 1198
                 1199
                           Routine Value:
                 1200
                                  none
                 1201
                 1202
                            Side Effects:
                                  none
                 1204
                1205
1206
1207
1208
1209
1210
                       1!--
                             BEGIN
                             TPARSE_ARGS;
                1211
1212
1213
                             496
497
498
                1214
1215
1216
                             RETURN SS$_NORMAL
   499
   500
                             END:
                                                           0000 00000
                                                                                .ENTRY
                                                                                       FDL$$SET_TERM, Save nothing
                                                                                                                                       : 1180
: 1212
: 1214
: 1216
                                                                                        FDLSAB_PRE_PARSE_BLOCK+12
                                             0000000G
                                                        00
                                                             D7 00002
                                                                               DECL
                                                         01
                                                             80000 Od
                                                                               MOVL
                                                             04 0000B
                                                                               RET
```

Routine Base: \_FDL\$CODE + 0172

; Routine Size: 12 bytes,

Page

VAX-11 Bliss-32 V4.0-742

```
16-Sép-1984 01:47:45
14-Sép-1984 12:31:17
V04-000
                    SET_PRIMARY
                                                                                                               [FDL.SRC]FDLDRIVER.B32;1
   502
503
504
505
                              *SBTTL 'SET_PRIMARY'
                    12122234567890123456789
1212234567890123456789
                              GLOBAL ROUTINE FDL$$SET_PRIMARY =
   506
                                functional Description:
   507
   508
                                Calling Sequence:
   509
   510
                                Input Parameters:
   511
                                        none
   512
513
                                Implicit Inputs:
   514
515
                                        none
   516
                                Output Parameters:
   517
                                        none
   518
   519
520
                                Implicit Outputs:
                                        none
   521
522
523
524
525
                                Routine Value:
                                        none
                    1240
1241
1242
1243
                                Side Effects:
   526
527
                                        none
   528
                   1244
   529
  530
531
532
533
534
535
                                   BEGIN
                   1246
                                   TPARSE_ARGS;
                    1248
                   1249
                                        NXTPRINUM:
                                                            ! The next key or area primary number
   536
537
538
539
540
                    1251
                   1252
                                   LOCAL
                                        PRIMASK:
                   1254
                                   PRIMASK = .TPARSE_BLOCK [ TPA$L_PARAM ];
   541
                    1256
   542
543
                    1257
                                   ! If this is the first call then clear an go else check to make sure a
                    1258
                                     secondary was processed.
   544
                    1259
   545
                    1260
                                   IF .FDL$AB_CTRL [ FDL$V_INITIAL ]
   546
                    1261
                    1262
   547
                                        fDL$AB_CTRL [ fDL$V_INITIAL ] = _CLEAR
   548
   549
                    1264
   550
551
552
553
554
555
                    1265
                                        ! If a secondary was processed the ok else null primary warning
                    1266
1267
                                        IF .FDL$AB_CTRL [ FDL$V_SECONDARY ]
                   1268
1269
1270
1271
1272
1273
                                             FDL$AB_CTRL [ FDL$V_SECONDARY ] = _CLEAR
   556
557
                                             SIGNAL ( FDL$_NULLPRI );
   558
                                   IF (
```

**FDLDRIVER** 

VAX-11 FDL Utilities

```
16-Sép-1984 01:47:45
14-Sép-1984 12:31:17
FDLDRIVER
                  VAX-11 FDL Utilities
                                                                                                                                           Page 16 (8)
                                                                                                   VAX-11 BLISS-32 V4.0-742
                  SET_PRIMARY
V04-000
                                                                                                   [FDL.SRC]FDLDRIVER.B32;1
                  1274
1275
1276
1277
                               ( NOT .FDL$AB_CTRL [ FDL$V_DFLT_PRES ] )
                        3
   560
                               OR
   561
                                  .FDL$AB_CTRL [ FDL$V_REPARSE ] )
   562
563
                               ) THEN
                  1278
                                    BEGIN
                  1279
   564
   565
                  1280
                                      If this primary has been defied before check to see if it's a
   566
                  1281
                                      key or area primary
                  1282
   567
   568
                  1283
                                    IF ( .PRIMASK AND .FDL$AB_PRICTRL ) NEQU O
   569
                  1284
                                    THEN
                  1285
   570
   571
                  1286
                                          Is it a key, area, analysis_of_key or analysis_of_area primary
   572
573
                  1287
                                          check the order in case the last was the same
                  1288
   574
                  1289
                                        IF (
   575
                  1290
   576
                  1291
                                               .PRIMASK )
                 1292
   577
                                             AND
   578
                                             ( FDL$M_KEY OR FDL$M_AREA OR FDL$M_ANALK OR FDL$M_ANALA )
   579
                  1294
                                        ) NEQU 0
   580
                  1295
   581
                  1296
                                        ) THEN
   582
583
                  1297
                  1298
                                               What was the last primary
   584
                  1299
   585
                  1300
   586
                  1301
                                             (.FDLSGL_PRIMARY EQLU FDLSC_KEY)
   587
                  1302
   588
                  1303
                                             (.FDL$GL_PRIMARY EQLU FDL$C_AREA)
   589
                  1304
   590
                  1305
                                             (.FDL$GL_PRIMARY EQLU FDL$C_ANALK)
   591
592
593
                 1306
                  1307
                                             (.FDL$GL_PRIMARY EQLU FDL$C_ANALA)
                  1308
                                             ) THEN
   594
                  1309
   595
                 1310
                                                   Check to see if the number is correct
   596
597
                  1311
                                                 IF .FDL$GL_PRINUM EQLU .NXTPRINUM
   598
                                                 THEN
   599
                                                      NXTPRINUM = .NXTPRINUM + 1
                  1314
                 1315
   600
                                                 ELSE
   601
                 1316
   602
                  1317
                                                     SIGNAL ( FDL$_OUTORDER,1,.FDL$GL_STMNTNUM );
RETURN FDL$_SYNTAX
                  1318
   604
                  1319
   605
                  1320
   606
                  1321
   607
                  1322
                                                 NXTPRINUM = 0
                  1323
   608
                  1324
   609
                                        ELSE
   610
                  1325
                  1326
   611
                                               Multiple primaries is only a warning
                  1327
   612
                  1328
                                             SIGNAL ( FDLS_MULPRI,1,.FDLSGL_STMNTNUM )
                  1329
   614
                  1330
   615
                                   ELSE
```

```
B 10
FDLDRIVER
                   VAX-11 FDL Utilities
                                                                            16-Sep-1984 01:47:45
                                                                                                         VAX-11 Bliss-32 V4.0-742
                                                                                                                                                    Page 17
V04-000
                   SET_PRIMARY
                                                                            14-Sep-1984 12:31:17
                                                                                                         CFDL.SRCJFDLDRIVER.B32;1
                                                                                                                                                          (8)
   616
617
                                           ! Is it a first key or area or ect. primary check the number
   618
   619
                                           IF ( .PRIMASK AND ( FOLSM_KEY OR FOLSM AREA OR FOLSM ANALK OR
   622345627890123
                                                                                                    FDLSM_ANALA ) ) NEQU O
                                           THEN
                                                ! If so check to see if the number is correct
                                                IF .FDL$GL_PRINUM EQLU 0
                                               THEN
                                                    NXTPRINUM = 1
                                                ELSE
                                                    BEGIN
                   1345
                                                    SIGNAL ( FDL$_OUTORDER,1,.FDL$GL_STMNTNUM );
                   1346
1347
                                                    RETURN FOLS SYNTAX
                                                    END:
                   1348
   634
635
                   1349
                                      END:
                   1350
1351
1352
1353
1354
1355
   636
637
                                 ! Flag it for latter
   638
                                 FDL$AB_PRICTRL = .FDL$AB_PRICTRL OR .PRIMASK;
   639
   640
641
643
644
                                 ! Clear FDL$PRIMARY so that tparse can set it on return
                   1356
1357
1358
1359
1360
                                 fDL$GL_PRIMARY = _CLEAR;
                                 ! Indicate that a new primary has been found
   645
                  1361
1362
1363
1364
1365
1366
1367
1368
1369
1370
                                 FDL$AB_CTRL [ FDL$V_NEWPRI ] = _SET;
   647
   648
                                 ! Get ready for a new set of secondaries
   649
651
653
654
655
655
655
                                 INCR I FROM 0 TO (FDL$K_SCTRL_LONG-1)
                                      FDL$AB_SECCTRLL [ .1 ] = _CLEAR;
                                 RETURN SS$_NORMAL;
   656
                                 END:
                                                                                        .PSECT _FDL$OWN,NOEXE, PIC,2
                                                                       00008 NXTPRINUM:
                                                                                        .BLKB 4
                                                                                        .PSECT _FDL$CODE,NOWRT, SHR, PIC,2
                                                                 03FC 00000
                                                                                        .ENTRY
                                                                                                 FDL$$SET_PRIMARY, Save R2,R3,R4,R5,R6,R7,-
                                                                                                                                                     : 1218
                                                               00 9E 00002
00 9E 00009
                                                                                                 FDL$GL_STMNTNUM, R9
FDL$GL_PRINUM, R8
                                              59 00000000G
58 0000000G
                                                                                        MOVAB
```

BAVOM

FDLDRIVER VO4-000	VAX-11 FDL Utilities SET_PRIMARY				C 10 16-Sep- 14-Sep-	1984 01:47 1984 12:31	:45	Page 18 (8)
		57 000000006 56 000000006 55 000000006 54 00000000 53 000000006	00 00	9E 000 9E 000 9E 000 9E 000 9E 000 9E 000 18 000	0	MOVAB MOVAB MOVAB MOVAB	FDL\$GL_PRIMARY, R7 FDL\$AB_PRICTRL, R6 LIB\$SIGNAL, R5 NXTPRINUM, R4 FDL\$AB_CTRL, R3 32(TPARSE_BLOCK), PRIMASK FDL\$AB_CTRL	<b>;</b>
		55 000000006 54 000000000	00	9E 000	5	MOVAB MOVAB	LIB\$SIGNAL, R5 NXTPRINUM, R4	:
		53 00000000 52 20	00 00 00 <b>A</b> Ç 63	DO 000	3	MOVL	TULDAB (IRL, RS 32(TPARSE BLOCK), PRIMASK EDISAB (TBI	1255
		63 80	06 8F	18 000 8A 000	9 8	MOVL TSTB BGEQ BICB2	1\$ #128, FDL\$AB_CTRL	; 1260 ; 1262
	06	63	13 06	יחממ בו	(F	BRB	N6. FDL\$AB CTRL. 2\$	<b>:</b>
			8F 09	8A 0004	1 1\$: 5 9	BBC BICB2 BRB	#64, FDL\$AB_CTRL	1267 1269
	0/ 02	00000000G	01	DD 0004 FB 000	B 25:	PUSHL CALLS	WFDL\$_NULLPRI W1, LIB\$SIGNAL	1271
	04 02	65 A3 67 02	01 A3	E1 0005 E9 0005 D4 0005	B 2\$: 14 3\$: 19 4\$:	BBC BLBC CLRL BITW	WFDL\$_NULLPRI W1, LIB\$SIGNAL W1, FDL\$AB_CTRL+2, 4\$ FDL\$AB_CTRE+2, 11\$ RO	; 1274 ; 1276
	0410	8F	52 02	B3 0005	if .4	BITW BEQL	PRIMASK, #1052	1293
		66	A30 5522 5530 5530 5530 550 550 550	D6 0006	66 58 58: 68: 70 73 76: 78: 78:	INCL BITL	5\$ RO PRIMASK, FDL\$AB_PRICTRL	1283
		24 50	36 50	13 0006 E9 0006	oB oD	BEQL BLBC	9\$ RO, 8\$	1289 1301
		50 0B	67 50	DO 0007	'0 '3	MOVL (MPL	FDL\$GL_PRIMARY, RO RO. #1T	; 1301 ;
		05	0F 50	D1 0007	6 8	BEQL (MPL	6\$ RO, #5	1303
		04	70	D1 0007	•	BEQL CMPL Beql	6\$ RO, #4 6\$	1305
		03	50 09	0008 12 0008	12	CMPL BNEQ	RO, #3	1307
		64	68 23	01 0008 12 0008	17 6\$:	CMPL BNEQ	FDL\$GL_PRINUM, NXTPRINUM	1312
			64 34	D6 0008	IC .	INCL BRB	NXTPRINUM 11\$	1314
			30	D4 0009 11 0009	5E 0 7 <b>\$</b> :	CLRL	NXTPRINUM 11\$	1322 1300 1328
			01	nn anns	IL RE.	BRB PUSHL PUSHL PUSHL	FDL\$GL_STMNTNUM	1328
		65 00000000G	03	DD 0009 FB 0009	05. 08 08 05. 05. 05. 05.	CALLS	WFDL\$_MULPRI W3, LIB\$SIGNAL 11\$	
		1E	21 50	11 000/ E9 000/	3 98:	BRB Blb( TSTL	RO, 11\$	1337
		64	68 05 01 15 69	DS 000/ 12 000/ DO 000/	18	BNEQ MOVL	FDL\$GL_PRINUM 10\$ #1, nxtprinum	1342
		<b>0</b> 4	15	11 000/	iD iF 10 <b>\$</b> :	BRB PUSHL	11\$ FDL\$GL_STMNTNUM	1345

DD 000B1

DD 000B3

DD 000AF 10\$:

FB 000B9 D0 000BC 04 000C3 C8 000C4 11\$: D4 000C7

PUSHL PUSHL PUSHL CALLS MOVL RET

BĪSL2 CLRL

FDESGL\_STMNTNUM

WFDL\$\_OUTORDER
W3, LTB\$SIGNAL
WFDL\$\_SYNTAX, RO

PRIMASK, FDL\$AB\_PRICTRL FDL\$GL\_PRIMARY

1345

1346

1353 1357

01 8F 03 8F

0000000G

65 50 00000000G

66

; Routine Size: 221 bytes. Routine Base: \_FDL\$CODE + 017E

```
E 10
FDLDRIVER
                      VAX-11 FDL Utilities
                                                                                          16-Sep-1984 01:47:45
                                                                                                                           VAX-11 Bliss-32 V4.0-742 [FDL.SRC]FDLDRIVER.B32;1
V04-000
                      SET_SECONDARY
                                                                                         14-Sep-1984 12:31:17
                      1372
1373
1374
1375
1376
1377
1378
1379
   658
659
                              1 %SBTTL 'SET_SECONDARY'
                                 GLOBAL ROUTINE FDL$$SET_SECONDARY =
   660
   661
   662
663
664
665
                                    Functional Description:
                                    Calling Sequence:
   666
                      1380
1381
1382
1383
1384
1386
1388
1389
1390
1391
1393
                                    Input Parameters:
                                            none
   668
669
670
671
673
674
675
677
                                    implicit Inputs:
                                            none
                                    Output Parameters:
                                            none
                                    Implicit Outputs:
                                            none
   678
679
                                    Routine Value:
                                            none
                     1394
1394
1395
1396
1397
   680
681
682
683
684
685
                                    Side Effects:
                                            none
                      1398
1399
                              1 !--
                     1400
1401
1402
1403
1404
1405
1406
1407
1408
   686
687
                                       BEGIN
   688
                                       TPARSE_ARGS;
   689
   690
691
                                       LOCAL
                                            SECBIT : LONG:
   692
693
                                       SECBIT = .TPARSE_BLOCK [ TPA$L_PARAM ];
   694
   695
                      1409
                                         See if the secondary has been defined before
   696
                      1410
                     1411
1412
1413
   697
                                       IF .FDL$AB_SECCTRL [ .SECBIT ]
   698
                                       THEN
   699
   700
701
                      1414
                                               If it has then see if it was a key segment thing
   702
703
704
                     1416
1417
1418
1419
1420
1421
1423
1424
1425
                                             ( .SECBIT EQLU FDL$C_SEGPOS )
   705
706
707
                                             ( .SECBIT EQLU FDL$C_SEGLEN )
                                             ( .SECBIT EQLU FDL$C_SEGTYP )
    708
                                            ) THEN
   709
710
                                                  BEGIN
   711
                                                  ! If it's out of bounds it's an error
   712
713
                      1426
                                                  IF .FDL$GL_SECNUM GTR 7
   714
                                                  THEN
```

Page

```
F 10
                                                                                  16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
                    VAX-11 FDL Utilities
                                                                                                                 VAX-11 Bliss-32 V4.0-742
                                                                                                                                                               Page
V04-000
                    SET_SECONDARY
                                                                                                                 [FDL.SRC]FDLDRIVER.B32;1
                    1433
1433
1433
1433
1433
1433
1439
                                                   BEGIN
                                                   SIGNAL ( FDL$_UNSECKW,3,
.FDL$GL_STMNTNUM,
.TPARSE_BLOCK [ TPA$L_TOKENCNT ],
.TPARSE_BLOCK [ TPA$L_TOKENPTR ] );
RETURN FDL$_SYNTAX
   END
                                              END
                                        ELSE
                                                If it has been defined before it's only a warning
                    1440
                    1441
                                              SIGNAL ( FDLS_MULSEC, 1, .FDLSGL_STMNTNUM )
                    1442
                                    ELSE
                    1444
                                         ! Flag it for next time (unless it's an ACL ENTRY - which can be repeated)
                    1445
                    1446
                                         IF .SECBIT NEQU FDLSC ACE
                    1447
                                         THEN
                                              FDL$AB_SECCTRL [ .SECBIT ] = SET;
                    1449
                                      Get ready for a new an wonderous qualifier
                    1451
                    1452
1453
                                   FDL$GL_QUALIFIER = _CLEAR;
                    1454
1455
                                   RETURN SS$ NORMAL
                    1456
                                   END:
                                                                                                        FDL$$SET_SECONDARY, Save R2,R3,R4 FDL$AB_SECCTRL, R4 LIB$SIGNAL, R3
                                                                      001C 00000
                                                                                               .ENTRY
                                                                                                                                                                    1373
                                                     0000000G
                                                                         9E
                                                                            00002
                                                                                               MOVAB
                                                  53
52
50
                                                     0000000G
                                                                    ÕÕ
                                                                         9Ē
                                                                            00009
                                                                                               MOVAB
                                                                                                        FDL$GL_STMNTNUM, R2
32(TPARSE_BLOCK), SECBIT
SECBIT, FDL$AB_SECCTRL, 3$
SECBIT, #134
                                                     0000000G
                                                                    ŎŎ
                                                                         9E 00010
                                                                                               MOVAB
                                                                    AC 50 50 12 50 09
                                                                         DO 00017
                                                                                               MOVL
                                                                                                                                                                    1407
                                                                         E1
                                                                            0001B
                                                                                                                                                                    1411
                                                                                               BBC
                                    00000086
                                                                         D1 0001F
                                                                                                                                                                    1417
                                                                                               CMPL
                                                                         13 00026
                                                                                               BEQL
                                    00000085
                                                  8F
                                                                            00028
                                                                                               CMPL
                                                                         D1
                                                                                                         SECBIT, W133
                                                                                                                                                                    1419
                                                                            0002F
                                                                                               BEQL
                                                                         13
                                                                    5Ó
22
                                   00000087
                                                                         D1
                                                                            00031
                                                                                               CMPL
                                                                                                         SECBIT, #135
                                                                                                                                                                    1421
                                                                            00038
                                                                         12
                                                                                               BNEQ
                                                  07 00000000G
                                                                    ŌŌ
                                                                            0003A 15:
                                                                                               CMPL
                                                                                                         FDLSGL_SECNUM, #7
                                                                                                                                                                    1427
                                                                         D1
                                                                         15 00041
                                                                                               BLEQ
                                                                                                         16(TPARSE_BLOCK), -(SP)
FDL$GL_STMNTNUM
                                                  7E
                                                             10
                                                                         7D 00043
                                                                                               MOVQ
                                                                    AC
                                                                    62
03
                                                                            00047
                                                                         DD
                                                                                               PUSHL
                                                                            00049
                                                                         DD
                                                                                               PUSHL
                                                                         DD 0004B
                                                      0000000G
                                                                                               PUSHL
                                                                    8f
                                                                                                         #FDL$ UNSECKW
                                                                    Õ5
                                                                            00051
                                                                                                         #5. LIBSSIGNAL
                                                                         FB
                                                                                               CALLS
                                                                         DÖ ÖÖÖ54
                                                  50 00000000G
                                                                                                                                                                    1434
                                                                                               MOVL
                                                                                                         WFDL$_SYNTAX, RO
                                                                            0005B
                                                                         04
                                                                                               RET
                                                                         DD
                                                                            00050 25:
                                                                                               PUSHL
                                                                                                                                                                    1441
                                                                                                         FDL$GL_STMNTNUM
                                                                            0005E
                                                                         DD
                                                                                               PUSHL
```

0000000G

8F

DD 00060

PUSHL

WFDL\$\_MULSEC

FDLDRIVER V04-000	VAX-11 FDL Utilities SET_SECONDARY			G 10 16-Sep-19 14-Sep-19	984 01:47 984 12:31	:45 :17	VAX-11 Bliss-32 V4.0-742 [FDL.SRC]FDLDRIVER.B32;1	Page 22 (9)
	00	63 08 64 50 00000000G	03 05 05 05 05 05 05 05 05 05 05 05 05 05	FB 00066 11 00069 D1 0006B 3\$: 13 0006E E2 00070 D4 00074 4\$: D0 0007A 04 0007D	CALLS BRB CMPL BEQL BBSS CLRL MOVL RET	SECBI	IB\$SIGNAL  T, #8  T, FDL\$AB_SECCTRL, 4\$  SL_QUALIFIER	1416 1446 1448 1452 1454 1456

; Routine Size: 126 bytes. Routine Base: \_FDL\$CODE + 025B

ı

```
H 10
                       VAX-11 FDL Utilities START_STR
                                                                                           16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
                                                                                                                              VAX-11 Bliss-32 V4.0-742 [FDL.SRC]FDLDRIVER.B32;1
                                                                                                                                                                                  Page
V04-000
                       1457
1458
1459
1460
1461
1462
1463
                                  XSBTTL 'START_STR'
GLOBAL ROUTINE FDL$$START_STR =
   74567
74567
7553
75567
7563
7653
7653
7653
                                     Functional Description:
                                              Initializes the string descriptor
                       1464
1465
1466
1467
1468
                                     Calling Sequence:
                                              Called from the parse tables
                       1469
1470
1471
                                     Input Parameters:
                                              none
                      1447756789012345678901234567890123
1447776789012345678901234567890123
                                     Implicit Inputs:
                                              none
                                     Output Parameters:
                                              none
                                     Implicit Outputs:
   none
                                     Routine Value:
                                              none
                                     Side Effects:
                                              none
                                        BEGIN
                                        TPARSE_ARGS;
                                        ! Start the makings of a descriptor
                                        FDL$AB_STRING [ DSC$A_POINTER ] = .TPARSE_BLOCK [ TPA$L_TOKENPTR ];
                                        ! Process blanks
                                        TPARSE_BLOCK [ TPA$V_BLANKS ] = _SET;
                                        RETURN SS$_NORMAL
                                        END:
```

```
00000000G 00 14 AC D0 00002 MOVL 20(TPARSE_BLOCK), FDL$AB_STRING+4 BISB2 #1, 4(TPARSE_BLOCK)  
01 D0 0000E MOVL #1, R0
```

1458 1495

1499

1501

: 1503

VAX-11 FDL Utilities START\_STR

I 10 16-Sep-1984 01:47:45 VAX-11 BLiss-32 V4.0-742 14-Sep-1984 12:31:17 [FDL.SRC]FDLDRIVER.B32;1

Page 24 (10)

Routine Base: \_FDL\$CODE + 0209 ; Routine Size: 18 bytes,

```
Page 25 (11)
```

```
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDR' /FR
                                                                                                                     VAX-11 Bliss-32 V4.0-742 [FDL.SRC]FDLDRIVER.B32;1
                     VAX-11 FDL Utilities
V04-000
                     END_STR
                     1504
1505
1506
1507
1508
1509
   792
793
794
795
                             1 %SBTTL 'END_STR'
                                GLOBAL ROUTINE FDL$SEND_STR =
   796
797
                                  functional Description:
   798
799
                     1510
1511
                                           Terminates the processing of a string and determines the length
    800
                     1512
                                   Calling Sequence:
   801
802
803
804
805
806
807
808
                     1513
                     1514
                                           Called from the parse tables
                     1515
                     1516
                                   Input Parameters:
                     1517
                                           none
                     1518
                     1519
                                   Implicit Inputs:
                     1520
1521
                                           none
   809
                     1522
   810
                                   Output Parameters:
   811
                                           none
   812
813
                     1524
1525
                                   Implicit Outputs:
                     1526
1527
1528
1529
1530
   814
                                           none
   815
   816
817
                                   Routine Value:
                                           none
   818
   819
                     1531
                                   Side Effects:
   820
821
822
823
824
825
                     1532
1533
                                           none
                     1534
1535
1536
1537
1538
                                     BEGIN
   826
827
                                     LOCAL
                     1539
1540
1541
1542
1543
1544
1546
1547
                                           SAVE_LEN
                                                                : WORD,
   828
829
830
833
833
834
836
837
                                           CUT_CEN
                                                                : WORD;
                                     TPARSE_ARGS;
                                     TPARSE_BLOCK [ TPA$V_BLANKS ] = _CLEAR;
                                      ! The size is from where we are minus from where we is
                                     FDL$AB_STRING [ DSC$W_LENGTH ] = .TPARSE_BLOCK [ TPA$L_STRINGPTR ] =
                     1549
1550
1551
1552
1553
                                                                                      .fDL$AB_STRING [ DSC$A_POINTER ];
   838
839
                                       If the last char was a "!" then subtract one
   8412345678
8445678
                                     IF .TPARSE_BLOCK [ TPA$B_CHAR ] EQL COMMENT_MARK
                     1554
                                           FDL$AB_STRING [ DSC$W_LENGTH ] = .FDL$AB_STRING [ DSC$W_LENGTH ] - 1;
                     1556
                     1557
                                      ! Save this length
                     1558
                     1559
1560
                                     SAVE_LEN = .FDL$AB_STRING [ DSC$W_LENGTH ];
```

J 10

```
16-Sep-1984 01:47:45
FDLDRIVER
                  VAX-11 FDL Utilities
                                                                                                   VAX-11 Bliss-32 V4.0-742
                                                                                                                                           Page 26 (11)
V04-000
                  END_STR
                                                                        14-Sep-1984 12:31:17
                                                                                                  [FDL.SRC]FDLDRIVER.832:1
   849
850
851
                               ! Remove trailing blanks
                  1562
1563
                               STR$TRIM ( FDL$AB_STRING, FDL$AB_STRING, CUT_LEN );
   852
853
                  1564
                  1565
                               ! Set the trimmed length
                  1566
1567
   854
   855
                               FDL$AB_STRING [ DSC$W_LENGTH ] = .CUT_LEN;
   856
857
                  1568
                  1569
                               ! Remove any leading white space from the string
                  1570
   858
   859
                  1,71
                               FDL$AB_STRING [ DSC$W_LENGTH ] = TRIM LEADING ():
                  1572
1573
   860
   861
                               ! Remove any quotes from the upcased string
   862
863
                  1574
                 1575
                               fDL$AB_STRING [ DSC$w_LENGTH ] = EXTRACT_QUOTE ();
   864
                  1576
   865
                  1577
                               ! Adjust the pointer so that we are looking into the original input line
                  1578
   866
                               FDL$AB_STRING [ DSC$A_POINTER ] = .FDL$AB_STRING [ DSC$A_POINTER ] -
                  1579
   867
   868
                  1580
                                                                                                   .FDL$GL_MAXLINE;
   869
                  1581
   870
                  1582
                                 Restore the original length
   871
                  1583
   872
873
                  1584
                               FDL$AB_STRING [ DSC$W_LENGTH ] = .SAVE_LEN;
                  1585
                 1586
1587
   874
                               ! Remove trailing blanks
   875
                  1588
   876
                               STR$TRIM ( FDL$AB_STRING,FDL$AB_STRING,CUT_LEN );
                 1589
1590
1591
1592
1593
   877
   878
                                 Set the trimmed length
   879
   880
                               fDL$AB_STRING [ DSC$W_LENGTH ] = .CUT_LEN;
   881
                 1594
1595
1596
1597
   882
883
                                 Remove any leading white space from the string
   884
                               FDL$AB_STRING [ DSC$W_LENGTH ] = TRIM_LEADING ();
   885
                  1598
   886
                                 Remove any quotes from the original string
                 1599
   887
   888
                 1600
                               FDL$AB_STRING [ DSC$W_LENGTH ] = EXTRACT_QUOTE ();
   889
                  1601
                 1602
   890
                               RETURN SS$_NORMAL:
   891
   892
                 1604
                               END:
                                                                                           FDL$$END_STR, Save R2,R3,R4,R5,R6
EXTRACT_QUOTE, R6
                                                             007C 00000
                                                                                                                                               1505
                                                                                   .ENTRY
                                                               9E
9E
                                               0000000v
                                                                   00002
                                                                                   MOVAB
                                               0000000v
                                                                                            TRIM LEADING, RS
                                                           00
                                                                   00009
                                                                                   MOVAB
                                                               9E (28)
                                                           00
00
                                                                                            STRSTRIM, R4
                                               00000000
                                                                   00010
                                                                                   MOVAB
                                                                                           FDLSAB_STRING, R3
                                               0000000G
                                                                   00017
                                                                                   MOVAB
                                                           04
                                                                                   SUBL 2
                                                                   0001E
                                                                                   BICB2
SUBW3
                                                                                            #1. 4(TPARSE_BLOCK)
                                      04
                                                           01
                                                                   00021
                            63
                                           AC
                                                     04
                                                               Ã3
                                                                   00025
                                                                                           FDLSAB_STRING+4, 12(TPARSE_BLOCK), -
```

K 10

FDLDRIVER VO4-000	VAX-11 FDL Utilities END_STR		L 10 16-Sep-1984 01:47:45 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:31:17 [FDL.SRC]FDLDRIVER.B32;1	Page 27 (11)
		21 18	FDL\$AB_STRING AC 91 0002B CMPB 24(TPARSE_BLOCK), #33 02 12 0002F BNEQ 1\$	1553
		52 4008	63 B7 00031 DECW FDL\$AB_STRING 63 B0 00033 1\$: MOVW FDL\$AB_STRING, SAVE_LEN 8F BB 00036 PUSHR #^M <r3_sp></r3_sp>	: 1555 : 1559 : 1563
1		64 63 65 63 66	OR FROMORE CALLS MR STREEM	1567 1571
	04	63 66 63 A3 00000000	00 FB 00048 CALLS #0, EXTRACT QUOTE 50 BO 0004B MOVW RO. FDL\$AB STRING	1575
	04	4008	00 C2 0004E SUBL2 FDL\$GL_MAXTINE, FDL\$AB_STRING+4 52 B0 00056 MOVW SAVE_LEN, FDL\$AB_STRING 8F BB 00059 PUSHR #^M <r3,sp> 53 DD 0005D PUSHL R3</r3,sp>	; 1580 ; 1584 ; 1588
		64 63 65 63 66 63 50	03 FB 0005F CALLS #3, STR\$TRIM	1592 . 1596
		66 63	OU BU UUUDE MUVW RU, PDLBAB SIRING	1600
		50	01 D0 00071 MOVL #1, RO 04 00074 RET	: 1602 : 1604

; Routine Size: 117 bytes, Routine Base: \_FDL\$CODE + 02EB

```
M 10
                                                                              16-Sep-1984 01:47:45
FDLDRIVER
                   VAX-11 FDL Utilities
                                                                                                            VAX-11 Bliss-32 V4.0-742
V04-000
                   EXTRACT_QUOTE
                                                                              14-Sep-1984 12:31:17
                                                                                                            [FDL.SRC]FDLDRIVER.B32:1
   894
895
                          1 %SBTTL 'EXTRACT_QUOTE'
                   1605
                   1606
1607
1608
1609
                             ROUTINE EXTRACT_QUOTE =
   896
897
   Functional Description:
                   1610
                   1611
                                       It also extracts out embedded or bracketing quotes or apostrophes
                   1612
                               Calling Sequence:
                   1614
                   1615
                                       Called from END_STR
                   1616
                                Input Parameters:
                   1618
                                       none
                   1619
                   1620
1621
1622
1623
1624
1625
                               Implicit Inputs:
                                       none
                               Output Parameters:
                                       none
                   1626
1627
                               Implicit Outputs:
   none
                   1628
                   1629
1630
1631
1632
1633
1635
1636
1638
1639
                               Routine Value:
                                       The new string length - after the quotes are removed.
                               Side Effects:
                                       none
                          1
                                  BEGIN
                                  LOCAL
                   1640
1641
1642
1643
                                       QCHAR
                                                : BYTE.
                                                : LONG.
                                       NEW LEN : LONG,
                                      CUT_LEN : LONG,
STR : REF V
                   1644
1645
1646
1647
                                      STR : REF VECTOR [ ,BYTE ],
TMP_STR : REF VECTOR [ ,BYTE ];
                                  NEW_LEN = .FDL$AB_STRING [ DSC$W_LENGTH ];
                   1648
1649
1650
1651
1653
1654
1656
1657
1658
1659
                                    Now extract out any bracketing or embedded quotes or apostrophes
                                  IF .FDL$AB_CTRL [ FDL$V_QUOTE_PRES ] OR .FDL$AB_CTRL [ FDL$V_APOST_PRES ]
                                  THEN
                                       BEGIN
                                       CUT_LEN = .FDL$AB_STRING [ DSC$W_LENGTH ];
                                       TMP_STR = FDL$$GET_VM ( .CUT_LEN );
                                      STR = .FDL$AB_STRING [ DSC$A_POINTER ];
                                       IF .FDL$AB_CTRL [ FDL$V_QUOTE_PRES ]
THEN
                   1660
```

950

1661

28 (12)

Page

! The routine value is the new length

1007

1718

Page 29 (12)

Page 30 (12)

FD VO

RETURN .NEW\_LEN;

END;

				0	) F F C	00000	EXTRACT	_QUOTE:	na	1404
		5B 50 5A	000000000000000000000000000000000000000	5 00 50 <b>AB</b>	3C DO 95	00010		.WORD MOVAB MOVZWL MOVL TSTB	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 FDL\$AB_CTRL, R11 FDL\$AB_STRING, R0 RÛ, NEW_LEN FDL\$AB_CTRL+1	; 1606 1647 ; 1651
67	01	AB 56		05 06 50 56	19 E1 D0 DD	00016 00018 0001D 00020	15:	BLSS BBC MOVL PUSHL	1\$ #6, FDL\$AB_CTRL+1, 8\$ RO, CUT_LEN CUT_LEN #1, FDL\$\$GET_VM	1655 1656
	0000000G	00 57 50 58	00000000	01 50 5 00 50	FB DO DO	0002C 00033		CALLS MOVL MOVL MOVL	FDL\$AB_STRING+4, RO RO, STR	1658
		59	01	50 AB 05 22 08	95 18 90 11	00036 00039 0003B 0003E		TSTB BGEQ MOVB BRB	FDL\$AB_CTRL+1 2\$ #34, QCHAR 3\$	1660
03 67	01	AB 59 60		06 27 56 5 <b>A</b>	28	00040 00045 00048 00040		BBC MOVB MOVC3 CLRL	#6, FDL\$AB_CTRL+1, 3\$ #39, QCHAR CUT_LEN, (RO), (TMP_STR) NEW_LEN	: 1663 : 1665 : 1667 : 1669
		51 51	FF	50 A6 50 21	04 9E 01	0004E 00050 00054 00057	45:	CLRL MOVAB CMPL BGTR	-1(R6), R1 J, R1 7\$	1670 1672
		59		6047 12 50	91 12 05	00059 0005D 0005F		CMPB BNEQ TSTL	(J)[TMP_STR], QCHAR 5\$ J	1679 1686
		51		13 50 0E	13 D1 13	00061 00063 00066		BEQL CMPL Beql	6\$ J, R1 6\$	•
		59	01	A047	91	00068 0006D		CMPB BNEQ	1(J)[TMP_STR], QCHAR	1690
	8	BA48		50 6047 50 DA	96 90	0006F	5\$: 6\$:	INCL MOVB INCL BRB	J (J)[TMP_STR], (NEW_LEN)+[STR] 48	1692 1704 1708 1672
	00000000G	7E 00 50		56 02 5A	7D F B D O	0007A 0007D 00084 00087		MOVQ CALLS MOVL RET	CUT_LEN, -(SP) #2, FDL\$\$FREE_VM NEW_LEN, RO	1714 1720 1722

Routine Base: \_FDL\$CODE + 0360 ; Routine Size: 136 bytes,

1069

```
D 11
                                                                         16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
                  VAX-11 FDL Utilities
                                                                                                     VAX-11 Bliss-32 V4.0-742
V04-000
                  TRIM LEADING
                                                                                                     [FDL.SRC]FDLDRIVER.B32:1
 1070
1071
                  1780
1781
                                     CUT_LEN = .FDL$AB_STRING [ DSC$W_LENGTH ];
                                     TMP_STR = FDL$$GET_VM ( .CUT_LENT);
  1072
1073
1074
1075
                  1782
1783
                                    STR = .FDL$AB_STRING [ DSC$A_POINTER ];
                  1784
1785
                                     CH$MOVE ( .CUT_LEN,.FDL$AB_STRING [ DSC$A_POINTER ],.TMP_STR );
  1076
                  1786
                  1787
                                    NEW_LEN = 0;
J = 0;
                  1788
  1078
  1079
                                    FLAG = _CLEAR:
                  1789
                  1790
  1080
                  1791
1792
1793
1794
  1081
1082
1083
                                    WHILE .J LEQ (.CUT_LEN - 1)
                                         BEGIN
  1084
                  1795
  1085
                                          ! Now copy the string back, but stripping the white space
                  1796
1797
1798
  1086
  1087
                                         IF (.TMP_STR [ .J ] EQLU .BLANK) OR (.TMP_STR [ .J ] EQLU .TAB)
  1088
                                         THEN
  1089
                  1799
                                              BEGIN
  1090
                  1800
                  1801
                                                If we have seen the a non-white character
  1092
1093
1094
                  1802
1803
                                                just copy this blank or tab like any other char
                  1804
                                              II .FLAG
  1095
                  1805
                                              THEN
  1096
                  1806
                                                  BEGIN
                  1807
  1098
                  1808
                                                  STR [ .NEW_LEN ] = .TMP_STR [ .J ];
  1099
                  1809
                                                  NEW_LEN = .NEW_LEN + 1
  1100
                  1810
  1101
                  1811
                                                  END;
                  1812
1813
  1102
                                              END
  1103
                                         ELSE
  1104
                  1814
                                                Just copy the character back and bump the count
  1105
                  1815
  1106
                  1816
                                              BEGIN
  1107
                  1817
                                             FLAG = _SET;
SIR [ .NEW_LEN ] = .TMP_STR [ .J ];
  1108
                  1818
  1109
                  1819
  1110
                  1820
                                              NEW_LEN = TNEW_LEN + 1
                  1821
 1111
  1112
                  1822
                                              END:
  1113
                  1823
  1114
                  1824
                                         J = .J + 1:
  1115
                  1825
                                                       ! do
  1116
                  1826
                                         END:
                  1827
  1117
                  1828
  1118
                                     ! Release the tmp string
                  1829
  1119
                  1830
  1120
                                    fDL$$fREE_VM ( .CUT_LEN,.TMP_STR );
  1121
                  1831
 1122
                  1832
1833
                                    END:
                                              ! IF THERE IS LEADING WHITE SPACE
  1124
                  1834
                                ! The routine value is the new length
                  1835
  1125
  1126
                  1836
                                RETURN .NEW_LEN;
```

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VAX-11 Bliss-32 V4.0-742

[FDL.SRC]FDLDRIVER.B32:1

; 1127 ; 1128

1837 2 1838 1 END;

> OFFC 00000 TRIM\_LEADING: Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 #32, BLANK #9, TAB FDL\$AB\_STRING+4, R0 (R0), TMP FDL\$AB\_STRING, R0 R0, NEW\_LEN TMP, BLANK .WORD ; 1724 90 20 90 00002 1768 9Ŏ 00005 MOVB 1769 00 90 30 00 0000000G ŎÓ 00008 MOVL 1770 6Ŏ ÖÖÖÖF MOVB 50 59 0000000G 00 50 51 51 55 55 55 55 55 55 55 00012 MOVZWL 1772 00019 MOVL 91 **5B** 00010 CMPB 1776 0001F BEQL 91 00021 12 00024 D0 00026 1\$: CMPB TMP, TAB BNEQ 8\$ RO, CUT\_LEN
> CUT\_LEN
> UT, FDL\$\$GET\_VM
> RO, TMP\_STR
> FDL\$AB\_STRING+4, RO
> RO, STR
> CUT\_LEN, (RO), (TMP\_STR) 1780 1781 56 MOVL DD 00029 PUSHL 0000000G FB 0002B CALLS 50 DŌ 00032 MOVL 50 0000000G 0056902 55555 ĎŎ 00035 MOVL 1783 58 DO 0003C MOVL 28 04 67 1785 1787 60 0003F MOVC3 NEW\_LEN 00043 CLRL **D4** 00045 CLRL 1788 94 00047 1789 CLRB A6 50 9E 00049 FF 1791 51 MOVAB -1(R6), R1 51 DĪ 0004D 2\$: CMPL J R1 7\$ 10 14 00050 **BGTR** 5B 6047 91 00052 (J)[TMP\_STR], BLANK 1797 CMPB 06 6047 13 00056 BEQL 5A 91 00058 CMPB (J)[TMP\_STR], TAB 05 52 03 12 0005C BNEQ Ė 9 0005E 3\$: BLBC OA. FLAG, 6\$ 1808 00061 BRB ŎĪ 90 00063 MOVB 1818 8948 9Ŏ (J)[TMP\_STR], (NEW\_LEN)+[STR] 6047 00066 5\$: 1819 MOVB 50 DE 0006B 6\$: D6 1824 INCL 11 0006D 1791 BRB CUT\_LEN, -(SP) #2, FDL\$\$FREE\_VM NEW\_LEN, RO 56 7D 0006F 7\$: 1830 MOVQ 00072 00079 8\$: 0Ō 0000000G FB CALLS DŌ MOVL 1836 04 0007C 1838 RET

: Routine Size: 125 bytes. Routine Base: \_FDL\$CODE + 03E8

```
F 11
                                                                             16-Sep-1984 01:47:45
                   VAX-11 FDL Utilities
FDLDRIVER
                                                                                                         VAX-11 Bliss-32 V4.0-742
V04-000
                   SET_DATE_TIME
                                                                            14-Sep-1984 12:31:17
                                                                                                         [FDL.SRC]FDLDRIVER.B32:1
: 1130
: 1131
: 1132
: 1133
: 1134
: 1135
                          1 %SBTTL 'SET_DATE_TIME'
1 GLOBAL ROUTINE FDL$$SET_DATE_TIME =
                   1839
1840
                   1841
                   1842
                               functional Description:
                   1844
  1136
1137
                   1845
                                      Sets up the date/time quadword
                   1846
1847
  1138
                               Calling Sequence:
  1139
                   1848
                   1849
  1140
                                      Called from the parse tables
  1141
                   1850
  1142
                   1851
                               Input Parameters:
                   1852
                                      none
  1144
                   1854
  1145
                               Implicit Inputs:
  1146
                                      none
                   1856
  1147
                   1857
  1148
                               Output Parameters:
  1149
                   1858
                                      none
  1150
                   1859
  1151
                   1860
                               Implicit Outputs:
  1152
1153
                   1861
                                      none
                   1862
  1154
                               Routine Value:
  1155
                   1864
                                      none
                   1865
  1156
                   1866
1867
1868
  1157
                               Side Effects:
  1158
  1159
                   1869
  1160
                   1870
  1161
                   1871
                                 BEGIN
  1162
                   1872
1873
  1163
                                 TPARSE_ARGS;
  1164
                   1874
  1165
                   1875
                                 LOCAL
  1166
                   1876
                                      TEMP_DESC
  1167
                                                         : DESC_BLK;
                   1877
  1168
                   1878
  1169
                                   We must adjust the pointer so it points to the upcased buffer
                   1879
  1170
                   1880
  1171
                                 TEMP_DESC [ DSC$w_LENGTH ] = .FDL$AB_STRING [ DSC$w_LENGTH ];
TEMP_DESC [ DSC$A_POINTER ] = .FDL$AB_STRING [ DSC$A_POINTER ] +
                   1881
  1172
                   1882
  1173
                                                                             .FDL$GL_MAXLINE;
  1174
                   1884
  1175
                                  ! If there is an error signal it and return failure
  1176
                   1886
  1177
                                 IF NOT SYS$BINTIM( TEMP_DESC,FDL$AL_DATE_TIME )
  1178
                                 THEN
  1179
                   1888
                                      BEGIN
  1180
                   1889
                   1890
1891
  1181
                                      BUILTIN CALLG:
  1182
                   1892
1893
  1183
                                      TPARSE_BLOCK [ TPA$L_PARAM ] = FDL$_INVDATIM;
  1184
  1185
                   1894
                                      CALLG( .TPARSE_BLOCK,FDL$$SYNTAX_ERROR );
                   1895
  1186
```

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(14)

FDLDRIVER V04-000	VAX-11 FDL SET_DATE_1	. Utilities IME	G 11 16-Sep-1984 01:47:45 14-Sep-1984 12:31:17	VAX-11 Bliss-32 V4.0-742 [FDL.SRC]FDLDRIVER.B32;1	Page 35 (14)
: 1187 : 1188 : 1189 : 1190 : 1191 : 1192 : 1193	1896 3 1897 3 1898 2 1899 2 1900 2 1901 2 1902 1	RETURN 0 END; RETURN SS\$_NORMAL END;			

04	AE 00000000G	5E 6E 00000000G 00 0000000G	0000 08 C2 00 B0 00 C1	00005	.ENTRY SUBL2 Movw Addl3	FDL\$\$SET_DATE_TIME, Save nothing #8, SP FDL\$AB_STRING, TEMP_DESC FDL\$GL_MAXLINE, FDL\$AB_STRING+4, - TEMP_DESC+4	: 1840 : 1880 : 1882
		00000000G	00 9F		PUSHAB	FDL\$AL_DATE_TIME	1886
	00000000	00	AE 9F 02 FB 50 E8	00022	PUSHAB Calls Blbs	TEMP_DESC #2, SYS\$BINTIM RO, 1\$	
	00000000 20	AC 00000000G	8F DC 6C FA 04 11	) 0005c	MOVL CALLG BRB	WFDLS_INVDATIM, 32(TPARSE_BLOCK) (TPARSE_BLOCK), FDL\$\$SYNTAX_ERROR 2\$	: 1892 : 1894 : 1896
		50	01 00 04	) 0003D 1\$:	MOVL RET	#1, R0	1900
			50 D4	00041 25:	CLRL RET	RO	1902

; Routine Size: 68 bytes, Routine Base: \_FDL\$CODE + 0465

```
H 11
FDLDRIVER
                                                                               16-Sep-1984 01:47:45
                    VAX-11 FDL Utilities
                                                                                                             VAX-11 Bliss-32 V4.0-742
                                                                                                                                                         Page
V04-000
                    SET_COMMENT
                                                                               14-Sep-1984 12:31:17
                                                                                                             [FDL.SRC]FDLDRIVER.832;1
                           1 %SBTTL 'SET_COMMENT'
1 GLOBAL ROUTINE FDL$$SET_COMMENT =
  1196
                    1904
  1197
                    1905
                    1906
  1198
                    1907
  1199
                                functional Description:
 120011200112345678901233456789012312243
                    1908
                    1909
                                       Sets up the comment descriptor
                    1910
                    1911
                                Calling Sequence:
                   1912
                                       Called from the parse tables
                   1914
                                Input Parameters:
                   1916
                                       none
                    1917
                   1918
                                Implicit Inputs:
                    1919
                   1920
                    1921
                                Output Parameters:
                   1922
                                       none
                   1924
1925
1926
1927
                                Implicit Outputs:
                                       none
                                Routine Value:
                   1928
                                       none
                   1929
                   1930
                                Side Effects:
                   1931
                                       none
                   1932
                   1933
                   1934
                                  BEGIN
                   1936
1937
                                  TPARSE_ARGS;
                   1938
                   1939
1940
1941
1942
1943
                                   ! The comment is the rest of the line
                                  FDL$AB_COMMENT [ DSC$W_LENGTH ] = .TPARSE_BLOCK [ TPA$L_STRINGCNT ] + 1;
FDL$AB_COMMENT [ DSC$A_POINTER ] = .TPARSE_BLOCK [ TPA$C_STRINGPTR ] - 1;
                   1944
                                    Adjust the pointer so that we are looking into the original input line
                   1946
                                  FDL$AB_COMMENT [ DSC$A_POINTER ] = .FDL$AB_COMMENT [ DSC$A_POINTER ] -
                                                                                                             .FDL$GL_MAXLINE;
                   1948
                   1949
                                  RETURN SS$_NORMAL
                   1950
                   1951
                                  END:
```

0004 00000 00 9E 00002 01 A1 00009

52 00000000G AC

08

**A2** 

FC

.ENTRY

MOVAB ADDW3 FDL\$\$SET\_COMMENT, Save R2
FDL\$AB\_COMMENT+4, R2
#1, 8(TPARSE\_BLOCK), FDL\$AB\_COMMENT

: 1904

: 1941

VAX-11 FDL Utilities SET\_COMMENT

FDLDRIVER VO4-000

C3 0000F C2 00014 D0 0001B O4 0001E 62 AC 000000000 00 00 00 00 01

SUBL3 SUBL2 MOVL RET

#1, 12(TPARSE\_BLOCK), FDL\$AB\_COMMENT+4
FDL\$GL\_MAXLINE, FDL\$AB\_COMMENT+4
#1, R0

VAX-11 Bliss-32 V4.0-742 EFDL.SRCJFDLDRIVER.B32;1

; Routine Size: 31 bytes, Routine Base: \_FDL\$CODE + 04A9

VAX-11 Bliss-32 V4.0-742

ĹfDL.SRČĴfDLDRĪVER.B32;1

! If this is a ambiguity check and there is none return failure

```
K 11
FDLDRIVER
                   VAX-11 FDL Utilities
                                                                              16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
                                                                                                           VAX-11 Bliss-32 V4.0-742
                                                                                                                                                       Page 39
                   SYNTAX_ERRROR
V04-000
                                                                                                           [FDL.SRC]FDLDRIVER.B32:1
  1302
1303
1304
1305
                   else signal the error
                                  IF ( ( .STATUS EQLU FDL$_ABKW ) OR ( .STATUS EQLU FDL$_ABPRIKW ) ) AND
                                                                              ( NOT .TPARSE_BLOCK [ TPA$V_AMBIG ] )
 1306
1307
1308
1309
1310
1311
1313
1314
1315
                                  THEN
                                       RETURN 0;
                                  ! If this is not a information message the set some error flags
                                  IF ( NOT ( .CODE [ STS$V_SEVERITY ] EQLU STS$K_INFO ) )
                                  THEN
                                        Say that there is an error on this secondary
  1316
1317
                                       FDL$AB_CTRL [ FDL$V_WARNING ] = _SET;
  1318
1319
                                    Signal the error with:
 1320
1321
1322
1323
1324
1326
1327
1328
1331
1332
1333
1334
                                       a) Line number
                                          Length of the current token
                                       c) Pointer to the token
                                       d) Length of the remainer of the line
                                       e) Pointer to the rest of the line
                                 RETURN SS$_NORMAL
                   2041
  1335
                   2042
                                  END:
                                                                   0000 00000
                                                                                          .ENTRY
                                                                                                   FDL$$SYNTAX_ERROR, Save nothing 32(TPARSE_BLOCK), STATUS
                                                                                                                                                            1953
                                                                AC
50
                                                                     DO 00002
                                                                                                                                                            2006
2011
                                                          20
                                                                                          MOVL
                                  0000000G
                                                                     D1 00006
                                                                                          CMPL
                                                                                                    STATUS, #FDL$_ABKW
                                                                69
50
04
                                                                     13 0000D
                                                                                          BEQL
                                                                                                    15
                                  0000000G
                                                                                                   STATUS, #FDL$_ABPRIKW 2$
                                                                     D1 0000F
                                                                                          CMPL
                                                                        00016
                                                                     12
                                                                                          BNEQ
                                                                                                   6(TPARSE_BLOCK), 4$
#0, #3, CODE, #3
                                                                AC
00
                                                                                                                                                            2012
2018
                                                                     E9 00018 15:
                                                          06
                                                                                          BLBC
             03
                                                                     ED 0001C 2$:
                              50
                                                                                          CMPZV
                                                                ÕŽ
                                                                                          BEQL
                                                                                                   #8, FDL$AB (TRL
8(TPARSE BEOCK), -(SP)
16(TPARSE BLOCK), -(SP)
                                               00
7E
                                                                                                                                                            2023
2037
                                  0000000G
                                                                80
                                                                     88 00023
                                                                                          BISB2
                                                          80
                                                                AC
                                                                     7D 0002A 3$:
                                                                                          MOVQ
                                                                AC
00
05
                                                                     7D 0002E
DD 00032
                                                           10
                                                                                          MOVQ
                                                                                                                                                            2035
                                                   0000000G
                                                                                          PUSHL
                                                                                                    FDLSGL_STMNTNUM
                                                                     DD 00038
                                                                                          PUSHL
                                                                AC
07
                                                                     DD 0003A
                                                                                                   32(TPARSE_BLOCK)
M7, LIB$SIGNAL
                                                                                          PUSHL
                                  0000000G
                                                                     FB 0003D
                                                                                          CALLS
                                                                Õ1
                                                                     DO 00044
                                                                                                    #1, RO
                                                                                                                                                            2040
                                                                                          MOVL
```

04 00047

RET

FDLDRIVER VO4-000 VAX-11 FDL Utilities SYNTAX\_ERRROR

16-Sep-1984 01:47:45 14-Sep-1984 12:31:17

VAX-11 Bliss-32 V4.0-742 [FDL.SRCJFDLDRIVER.B32;1

Page 40 (16)

50 D4 00048 45: 04 0004A CLRL RO

: 2042 :

; Routine Size: 75 bytes, Routine Base: \_FDL\$CODE + 04C8

```
M 11
                                                                                  16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
                    VAX-11 FDL Utilities
                                                                                                                  VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                 Page 41
V04-000
                    NEGATE
                                                                                                                  [FDL.SRC]FDLDRIVER.B32:1
                                                                                                                                                                      (17)
 1337
1338
1339
1340
1341
1342
                    2043
2044
2045
2046
2047
                              *SBTTL 'NEGATE'
                               GLOBAL ROUTINE FDL$$NEGATE : NOVALUE =
                            1
                                 Functional Description:
                    2048
                                         Produces the negative version of a number
  1344
                    2050
                    2051
                                 Calling Sequence:
 1346
1347
1348
1349
1350
1351
                    2052
                                         Called from the parse tables
                    2054
2055
2056
2057
2058
2059
                                 Input Parameters:
                                         none
                                 Implicit Inputs:
                                         none
                    2060
 1354
 1355
                    2061
                                 Output Parameters:
                    2062
2063
2064
2065
 1356
                                         none
 1357
 1358
                                 Implicit Outputs:
 1359
                                         none
 1360
                    2066
2067
2068
2070
2071
2073
2075
2077
2077
2077
2078
2081
2083
2084
 1361
                                 Routine Value:
 1362
 1363
                                         none
 1364
 1365
                                 Side Effects:
 1366
                                         none
 1367
 1368
                           1 !--
 1369
1370
                                   BEGIN
 1371
 1372
1373
                                    TPARSE_ARGS;
 1374
1375
                                    ! Just negate the number
 1376
                                    FDL$GL_NUMBER = -.FDL$GL_NUMBER;
 1377
 1378
1379
                                    RETURN
                    2085
 1380
                    2086
                                    END:
                                                                       0004 00000
                                                                                                          FDL$$NEGATE, Save R2
                                                                                                                                                                   : 2044
                                                                                                .ENTRY
                                                  52 00000000G
62
                                                                   00 9E 00002
62 CE 00009
                                                                                               MOVAB
                                                                                                          FDL$GL_NUMBER, R2
                                                                                                                                                                     2082
                                                                                               MNEGL
                                                                                                          FDL$GL_NUMBER, FDL$GL_NUMBER
                                                                         04 0000C
                                                                                               RET
```

Routine Base: \_FDL\$CODE + 0513

; Routine Size: 13 bytes,

```
N 11
                                                                           16-Sep-1984 01:47:45
FDLDRIVER
                  VAX-11 FDL Utilities
                                                                                                       VAX-11 Bliss-32 V4.0-742
                                                                                                                                                 Page 42
V04-000
                  SET_BLANK
                                                                           14-Sep-1984 12:31:17
                                                                                                       [FDL.SRC]FDLDRIVER.B32:1
 1382
1383
                         1 %SBTTL 'SET_BLANK'
1 GLOBAL ROUTINE FDL$$SET_BLANK : NOVALUE =
                  1385
  1386
                              Functional Description:
 1386
1387
1388
1389
1391
1393
1394
1395
                                     Sets the Tparse blanks flag to allow parsing of blanks
                              Calling Sequence:
                                     Called from the parse tables
                              Input Parameters:
                                     none
 1396
1397
1398
                              Implicit Inputs:
                                     none
  1399
  1400
                              Output Parameters:
  1401
                                     none
 1402
                              Implicit Outputs:
 1404
                                     none
  1406
                              Routine Value:
  1407
  1408
                                     none
  1409
 1410
                              Side Effects:
 1411
                                     none
 1412
 1414
 1415
                                BEGIN
 1416
 1417
                                TPARSE_ARGS;
 1418
 1419
                                ! Just set the flag
 1420
1421
1422
1423
1424
1425
                                TPARSE_BLOCK [ TPA$V_BLANKS ] = _SET;
                                RETURN
                                END:
```

; Routine Size: 7 bytes, Routine Base: \_FDL\$CODE + 0520

```
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
FDLDRIVER
                       VAX-11 FDL Utilities
                                                                                                                             VAX-11 Bliss-32 V4.0-742 [FDL.SRCJFDLDRIVER.B32:1
                                                                                                                                                                                Page 43 (19)
V04-000
                       CLR_BLANK
                               1 %SBTTL 'CLR_BLANK'
1 GLOBAL ROUTINE FDL$$CLR_BLANK : NOVALUE =
                       2131
2133
2133
2135
2136
2137
2138
2140
2141
                                    Functional Description:
                                             Clears the Tparse blanks flag
                                     Calling Sequence:
                                             Called from the parse tables
                                     Input Parameters:
                                             none
                                     Implicit Inputs:
                                             none
                       2148
2149
2150
2151
2152
2153
2155
2156
2157
                                     Output Parameters:
                                             none
                                     Implicit Outputs:
                                             none
                                    Routine Value:
                                             none
                       2158
2159
  1455
                                    Side Effects:
                       2160
  1456
                                             none
  1457
                       2161
                       2162
2163
2164
2165
  1458
                              1!--
  1459
  1460
                                       BEGIN
  1461
                      2166
2167
2168
2169
2170
2171
2172
2173
2174
                                       TPARSE_ARGS;
  1462
  1463
  1464
                                        ! Just clear the flag
  1465
  1466
                                        TPARSE_BLOCK [ TPA$V_BLANKS ] = _CLEAR;
  1467
  1468
                                       RETURN
  1469
: 1469
: 1470
                                       END:
```

0000 00000 01 8A 00002 04 00006 .ENTRY FDL\$\$CLR\_BLANK, Save nothing BICB2 #1, 4(TPARSE\_BLOCK)

BICB2 RET

FD VO

; Routine Size: 7 bytes, Routine Base: \_fDL\$CODE + 0527

```
C 12
16-Sep-1984 01:47:45
14-Sep-1984 12:31:17
 FDLDRIVER
                                                                                                                                                                            VAX-11 Bliss-32 V4.0-742 [FDL.SRCJFDLDRIVER.B32;1
                                VAX-11 FDL Utilities
                                                                                                                                                                                                                                                   Page 44 (20)
 V04-000
                                ERRROR_CHK
                               2175 1 %SBTTL 'ERRROR_CHK'
2176 1 GLOBAL ROUTINE FDL$$
2177 1 !++
2178 1
2179 1 Functional Descript
2180 1
2181 1 Does a check
2182 1
2183 1 Calling Sequence:
2184 1
2185 1 Called from t
2186 1
2187 1 Input Parameters:
2188 1 none
2189 1
2190 1 Implicit Inputs:
2191 1 none
2192 1
2193 1 Output Parameters:
2194 1 none
2195 1
2196 1 Implicit Outputs:
2197 1 none
2198 1
2199 1 Routine Value:
2200 1
2201 1 Value of fdl$
    GLOBAL ROUTINE FDLSSERROR CHK =
                                                   Functional Description:
                                                               Does a check if there was a warning
                                                               Called from the parse tables
    1492
1493
    1494
    1495
    1496
    1498
1499
1500
                                2201
                                                               Value of fdl$ab_ctrl [ fdl$v_warning ]
                                2202
                                2203
                                                   Side Effects:
                                2204
    1501
                                                               none
    1502
1503
1504
1505
1506
                                2205
                                2206
2207
2208
2209
2210
2211
2212
2213
2214
2215
2216
                                                       BEGIN
                                                       TPARSE_ARGS;
    1508
    1509
                                                        ! If there is a warning return true else fail
    1510
: 1511
: 1512
: 1513
                                                       RETURN .FDL$AB_CTRL [ FDL$V_WARNING ]
                                                       END:
                                                                                                            0000 00000
8 EF 00002
04 0000B
                                                                                                                                                                                                                                                      : 2176
: 2214
: 2216
                                                                                                                                                 .ENTRY FDL$$ERROR_CHK, Save nothing EXIZV #3, #1, FD[$AB_CTRL, R0
                      50 00000000 00
                                                                             01
                                                                                                                                                 EXTZV
                                                                                                                                                 RET
; Routine Size: 12 bytes,
                                                           Routine Base: _fDL$CODE + 052E
```

; 1514

2217 1

! If this is only an end of file then return

1572

FC

Page 45 (21)

```
E 12
16-Sep-1984 01:47:45
FDLDRIVER
                    VAX-11 FDL Utilities
                                                                                                             VAX-11 Bliss-32 V4.0-742
                                                                                                                                                          Page 46
V04-000
                                                                               14-Sep-1984 12:31:17
                    FDL$$READ_ERROR
                                                                                                             [FDL.SRC]FDLDRIVER.832:1
                                                                                                                                                               (21)
  1573
1574
                    IF .RAB [ RAB$L_STS ] EQLU RMS$_EOF
  1575
                                   THEN
  1576
1577
                                        RETURN:
  1578
1579
                                     Now get the fab it points to
  1580
                                   FAB = .RAB [ RAB$L_FAB ];
  1581
  1582
                                     Get the name block
  1583
  1584
                                   NAM = .FAB [ FAB$L_NAM ];
  1585
  1586
                                     Signal the FDL error with the best file name string
  1587
  1588
                                     first try the resultant string
  1589
  1590
                                   IF .NAM [ NAMSB_RSL ] NEQU O
  1591
                                   IHEN
  1592
                                        BEGIN
  1593
                                        STRING_DESC [ DSC$W_LENGTH ] = .NAM [ NAM$B_RSL ];
STRING_DESC [ DSC$A_POINTER ] = .NAM [ NAM$[_RSA ]
  1594
  1595
  1596
  1597
                                     Next try the expanded string
  1598
  1599
                                   ELSE IF .NAM [ NAM$B_ESL ] NEQU O
  1600
                                   THEN
  1601
                                        BEGIN
                                       STRING_DESC [ DSC$W_LENGTH ] = .NAM [ NAM$B_ESL ];
STRING_DESC [ DSC$A_POINTER ] = .NAM [ NAM$[_ESA ]
  1602
  1603
  1604
  1605
  1606
                                   ! If all else fails use the name string
  1607
  1608
                                   ELSE
  1609
                                        BEGIN
                                       STRING_DESC [ DSC$W_LENGTH ] = .FAB [ FAB$B FNS ];
STRING_DESC [ DSC$A_POINTER ] = .FAB [ FAB$C_FNA ]
  1610
  1611
  1612
  1613
  1614
                                   SIGNAL_STOP( .RAB [ RAB$L_CTX ],1,STRING_DESC,
  1615
                                                   .RAB [ FAB$L_STS ], .RAB [ FAB$L_STV ] )
  1616
: 1616
                                   END:
                                                                    0000 00000
                                                                                            .ENTRY
                                                                                                     fDL$$READ_ERROR, Save R2,R3
                                                                                                                                                              2219
                                                53 00000000°
52 04
                                                                                                     STRING DESC, R3
4(AST_BLOCK), RAB
8(RAB), #98938
                                                                      9E
00
                                                                  00
                                                                          00002
                                                                                           MOVAB
                                                                 AC
A2
43
                                                                          00009
                                                                                                                                                              2272
2276
                                                                                           MOVL
                                   0001827A
                                                            80
                                                                       D1
                                                                          0000D
                                                                                           CMPL
                                                                       13
                                                                          00015
                                                                                           BEQL
                                                                                                     45
                                                                                                                                                              2282
2286
                                                                          00017
                                                                                                     60(RAB), FAB
                                                                       00
                                                                                           MOVL
```

DO 0001B

MOVL

40(FAB), NAM

FC

VČ

FDLDRIVER V04-000	VAX-11 FDL Utilities FDL\$\$READ_ERROR		F 12 16-Sep-1984 01:47:45				
	04	63 A3	03 A0 95 0001F 0B 13 00022 03 A0 98 00024 04 A0 D0 00028 19 11 0002D 0B A0 95 0002F 1\$:		: 2292 : 2295 : 2296 : 2301		
	04	63 A3	0B 13 00032 0B A0 9B 00034 0C A0 D0 00038 09 11 00030	BEQL 2\$ MOVZBW 11(NAM), STRING_DESC MOVL 12(NAM), STRING_DESC+4 BRB 3\$	2304 2305		
	04	63 A3 7E	34 A1 98 0003F 2\$: 2C A1 D0 00043 08 A2 7D 00048 3\$: 53 DD 0004C	MOVZBW 52(FAB), STRING_DESC MOVL 44(FAB), STRING_DESC+4	; 2312 ; 2313 ; 2317 ; 2316		
	000000J0G	00	01 DD 0004E 18 A2 DD 00050 05 FB 00053 04 0005A 4\$:	PUSHL #1 PUSHL 24(RAB) CALLS #5, LIB\$STOP	2319		

; Routine Size: 91 bytes. Routine Base: \_FDL\$CODE + 053A

; 1618 2320 1

SIGNAL\_STOP( .RMS\_BLOCK [ RAB\$L\_CTX ],

1676

FDLDRIVER V04-000	VAX-11 FDL FDL\$\$RMS_E	Utilities RROR	H 12 16-Sep-1984 01:47:45				Page 49 (22)
; 1677 : 1678 ; 1679	2378 2 2379 2 2380 1	END;	.RMS_BLOCK [ RAB\$L_STS ],.RMS_BLOCK [ RAB\$L_STV ] )				
		00000000	50 04 7E 08 18	0000 00000 AC DO 00002 AO 7D 00006 AO DD 0000A 03 FB 0000D 04 00014	.ENTRY MOVL MOVQ PUSHL CALLS RET	FDL\$\$RMS_ERROR, Save nothing 4(AST_BLOCK), RMS_BLOCK 8(RMS_BLOCK), -(SP) 24(RMS_BLOCK) #3, LIB\$STOP	; 2322 ; 2371 ; 2378 ; 2377 ;

; Routine Size: 21 bytes, Routine Base: \_FDL\$CODE + 0595

; 1680 2381 1

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```
J 12
16-Sep-1984 01:47:45
                      VAX-11 FDL Utilities
FDLDRIVER
                                                                                                                      VAX-11 Bliss-32 V4.0-742
V04-000
                      FDL$$RMS_OPEN_ERROR
                                                                                      14-Sep-1984 12:31:17
                                                                                                                      [FDL.SRC]FDLDRIVER.B32:1
  1739
1740
                     FAB = .FAB [ RAB$L_FAB ];
                                                                                      ! This looks strange but it's ok!
  1741
1742
1743
1744
1745
1746
1747
1748
1749
1750
                                      ! Get the name block
                                      NAM = .FAB [ FAB$L_NAM ];
                                        Signal the FDL error with the best file name string
                                        First try the resultant string
                                      If .NAM [ NAM$B_RSL ] NEQU 0
                                      THEN
  1752
1753
1754
1755
                                           BEGIN
                                           STRING_DESC [ DSC$W_LENGTH ] = .NAM [ NAM$B_RSL ];
STRING_DESC [ DSC$A_POINTER ] = .NAM [ NAM$[_RSA ]
  1756
1757
                                      ! Next try the expanded string
  1758
  1759
                                      ELSE IF .NAM [ NAMSB_ESL ] NEQU O
  1760
                                      THEN
  1761
                                           BEGIN
                                           STRING_DESC [ DSC$w_LENGTH ] = .NAM [ NAM$B_ESL ];
STRING_DESC [ DSC$a_POINTER ] = .NAM [ NAM$[_ESA ]
  1762
  1763
  1764
  1765
  1766
                                      ! If all else fails use the name string
  1767
  1768
                                     ELSE
  1769
                                           BEGIN
  1770
                                           STRING_DESC [ DSC$W_LENGTH ] = .FAB [ FAB$B_FNS ];
STRING_DESC [ DSC$A_POINTER ] = .FAB [ FAB$[_FNA ]
  1771
: 1772
                                           END:
  1773
  1774
                                     SIGNAL_STOP( .FAB [ RAB$L_CTX ],1,STRING_DESC, .FAB [ FAB$L_STS ],.FAB [ FAB$L_STV ] )
  1775
: 1776
: 1777
  1776
                                      END:
```

	6.3	00000001		1004	00000		.ENTRY	FDLSSRMS_OPEN_ERROR, Save R2	; 2383
	52 51	00000000'	00 AC	9E D0	00002		MOVAB MOVL	STRING_DESC, R2 4(AST_BLOCK), FAB	2434
	δi	04	61	91	00000		CMPB	(FAB), #1	2438
	_		04	12	00010		BNEQ	1\$	;
	51	<u>3</u> C	A1	DŌ	00012		MOVL	60(FAB), FAB	: 2440
	50	28	A1	ĎÕ	00016	1\$:	MOVL	40(FAB), NAM	; 2444
		03	AO	95	0001A		TSTB	3(NAM)	2450
	4.2	0.3	OB AO	9B	0001D 0001F		BEQL Movzbw	Z/NAM) CIDING DECC	2/57
04	62	03 04	ÃŎ	00	00023		MOVL	3(NAM), STRING_DESC 4(NAM), STRING_DESC+4	: 2453 : 2454
04	76	04	19	11	00028		BRB	4\$	
		0B	ÀÓ	95	0002A	2\$:	TSTB	11 (NAM)	2459

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```
K 12
                                                                          16-Sep-1984 01:47:45
FDLDRIVER
                  VAX-11 FDL Utilities
                                                                                                      VAX-11 Bliss-32 V4.0-742
                                                                                                                                                Page 52 (23)
V04-000
                  FDL$$RMS_OPEN_ERROR
                                                                          14-Sep-1984 12:31:17
                                                                                                      [FDL.SRC]FDLDRIVER.B32:1
                                                             0B
A0
A0
09
                                                        0B
0C
                                                                  9B 0002F
D0 00033
                                                                                               11(NAM), STRING_DESC
12(NAM), STRING_DESC+4
                                                                                      MOVZBW
                                                                                                                                                     2462
2463
                                        04
                                                                                      MOVL
                                                                  11
                                                                     00038
                                                                                      BRB
                                                        34
20
08
                                                                                               52(FAB), STRING_DESC
44(FAB), STRING_DESC+4
                                                             A1
A1
52
01
                                                                  9B 0003A 3$:
                                                                                      MOVZBW
                                                                                                                                                     2470
                                                                  00
70
                                                                     0003E
00043 4$:
                                        04
                                                                                      MOVL
                                                                                                                                                     2471
                                                                                      MOVQ
                                                                                               8(FAB), -(SP)
                                                                                                                                                     2475
                                                                                      PUSHL
                                                                                               R2
                                                                  DD
                                                                     00047
                                                                  DD 00049
                                                                                      PUSHL
                                                        18
                                                                  DD 0004B
                                                                                      PUSHL
                                                                                                24(FAB)
                                 0000000G
                                                                  FB 0004E
                                                                                      CALLS
                                                                                               #5. LIB$STOP
                                                                  04 00055
                                                                                      RET
                                                                                                                                                    2477
; Routine Size: 86 bytes,
                                   Routine Base: _FDL$CODE + 05AA
; 1778
; 1779
                  2478
2479
                         1 0 END ELUDOM
                                                                                      .EXTRN LIB$SIGNAL, LIB$STOP
                                             PSECT SUMMARY
         Name
                                      Bytes
                                                                         Attributes
   _FDL$OWN
_FDL$CODE
                                                                  RD , NOEXE , NOSHR , LCL , REL , CON , PIC , ALIGN (2)
                                           1536 NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)
                                     Library Statistics
                                                     ----- Symbols -----
                                                                                        Pages
                                                                                                      Processing
         File
                                                                         Percent
                                                    Total
                                                               Loaded
                                                                                        Mapped
                                                                                                      Time
   _$255$DUA28:[SYSLIB]STARLET.L32;1
                                                     9776
                                                                   39
                                                                                         581
                                                                                                         00:01.0
```

## COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:FDLDRIVER/OBJ=OBJ\$:FDLDRIVER MSRC\$:FDLDRIVER/UPDATE=(ENH\$:FDLDRIVER)

Size: 1536 code + 12 data bytes

; Run Time: 00:36.1 ; Elapsed Time: 02:08.7 ; Lines/CPU Min: 4125 ; Lexemes/CPU-Min: 21518 ; Memory Used: 175 pages

L 12 16-Sep-1984 01:47:45 VAX-11 Bliss-32 V4.0-742

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; Compilation Complete

0176 AH-BT13A-SE

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